# AVerMedia®
# AVerDiGi
# EB1704HB WiFi-4 Lite

## User Manual

**FCC NOTICE (Class A)**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**.Federal Communications Commission Statement**

NOTE- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by tuning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

**Class A ITE**

Class A ITE is a category of all other ITE which satisfies the class A ITE limits but not the class B ITE limits. Such equipment should not be restricted in its sale but the following warning shall be included in the instructions for use:
**Warning --**This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

**European Community Compliance Statement (Class A)**

This product is herewith confirmed to comply with the requirements set out in the Council Directives on the Approximation of the laws of the Member States relating to Electromagnetic Compatibility Directive 2004/108/EEC.

Warning - This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures to correct this interference.

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The mark of Crossed-out wheeled bin indicates that this product must not be disposed of with your other household waste. Instead, you need to dispose of the waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. For more information about where to drop off your waste equipment for recycling, please contact your household waste disposal service or the shop where you purchased the product.

**Battery Safety Information**

- Store the batteries in a cool dry place.
- Do not dispose of used batteries in domestic waste. Dispose of batteries at special collection points or return to point of sale if applies.
- Remove the batteries during long periods of non-use. Always remove exhausted batteries from the remote control. Battery leakage and corrosion can damage this remote control, dispose of batteries safely.
- Do not mix old and new batteries.
- Do not mix different types of batteries: alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium).
- Do not dispose of batteries in a fire. The batteries may explode or leak.
- Never short circuit the battery terminals.

-

**WARNING**

TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE

**CAUTION**

IF THERE IS ANY DAMAGE, SHORTAGE OR INAPPROPRIATE ITEM IN THE PACKAGE, PLEASE CONTACT WITH YOUR LOCAL DEALER. WARRANTY VOID FOR ANY UNAUTHORIZED PRODUCT MODIFICATION

**NOTICE**

- INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE.
- THE INFORMATION CONTAINED HEREIN IS TO BE CONSIDERED FOR REFERENCE ONLY.

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# Chapter 1 Introduction

## 1.1 Package Content

### 1.1.1 DVR unit

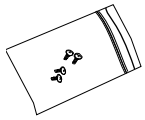
(1)

(2)

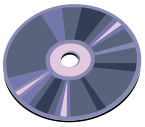
(3)

(4)

(5)



(6)



(7)

(8)

- ☐ (1) AVerDiGi EB1704HB WiFi unit
- ☐ (2) Remote Control (batteries included)
- ☐ (3) Quick Installation Guide
- ☐ (4) Power Cord
  * The power cord varies depending on the standard power outlet of the country where it is sold.
- ☐ (5) Power Adapter
- ☐ (6) Removable hard disk drawer accessories (with spare screws)
- ☐ (7) Software CD (User Manual included)
- ☐ (8) Antenna

### 1.1.2 WiFi IP Camera

(1)

(2)

(3)

(1) WiFi IP camera

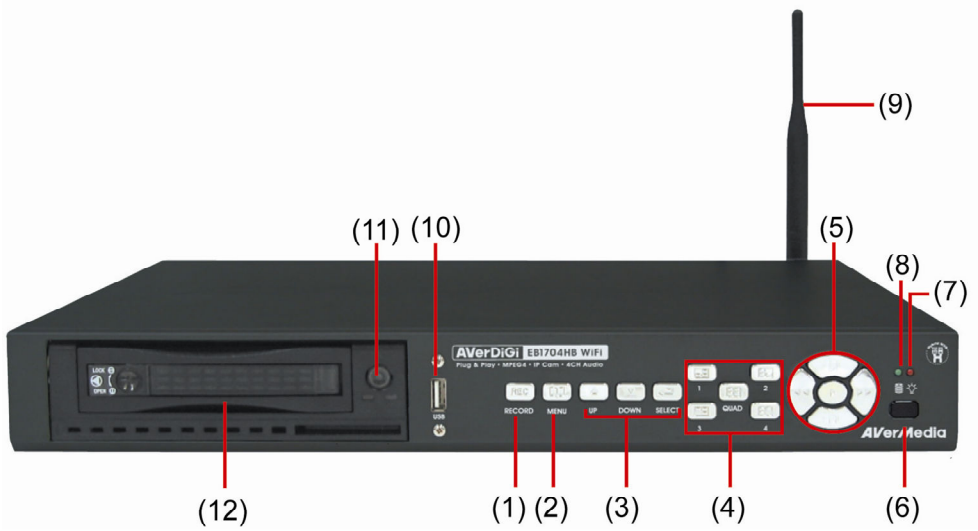
- ☐ ⓘ The figure of IP camera just for reference and my different from the actual ones.
- ☐ (2) Power Adapter
  * The power cord varies depending on the standard power outlet of the country where it is sold.
- ☐ (3) Antenna

- Each DVR package contains 4 pieces of IP camera.
- If there is any damage, shortage or inappropriate item in the package contents, please contact with local dealer

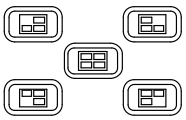
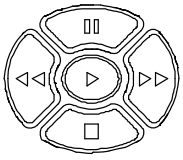
## 1.2 Features and Specifications

- Support 4 WiFi IP Cameras connection
- Support 4 Channel Audio Record
- MPEG-4 compression
- Multiple clients and dynamic IP supported
- Motion detection recoding
- Support Central Monitor System(CM3000)
- Support audio recording via internet
- Synchronized video and audio
- Support Pen drive backup
- Display on TV or VGA
- Real Time display : 120/100 fps(NTSC/PAL)
- Recording frame rate
  - CIF mode: 120/100 fps
  - D1 mode : 60/50 fps
- 128 bits WPA2 encryption protocol
- On Screen Display with multi-lingual
- Easy to use with remote control
- HDD bad sector skip mechanism
- Support Day Light Saving Setting
- Support Auto Correct Time

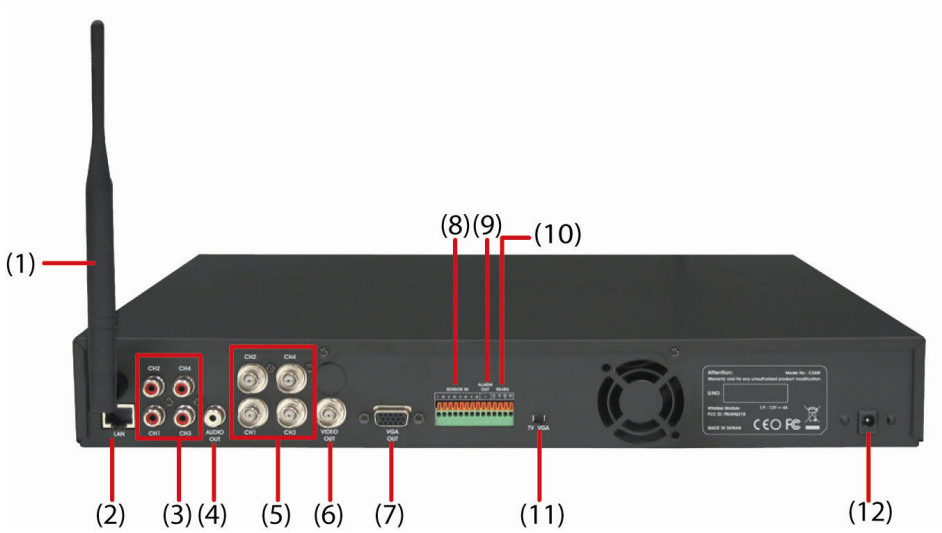
## 1.3 Front Panel




| Name | | | Function |
|---|---|---|---|
| (1) | Record REC | : | Start video recording. To stop recording, press ▢ |
| (2) | Menu 🕮 | : | Call up and exit the OSD main and sub menu |
| (3) | UP/DOWN/SELECT △ ▽ ⏎ | : | Use the **UP** and **DOWN** buttons to change setting and move to the left and right, and **SELECT** to enter or make a selection |

| Name | | Function |
|---|---|---|
| (4) | 1/2/3/4/Quad  : | Use these buttons in playback mode to switch to display each channel in full screen or view all channels at the same time<br>Use the buttons in setting password of OSD menu to:<br> : For ”1”<br> : For “2”<br> : For “3”<br> : For “4”<br> : For “0” |
| (5) | Playback/OSD Menu Control Buttons  : | Use the buttons in playback mode to:<br>▶ : Display the play list and play the recorded video<br>◀◀ : Wind back the video playback at the speed of 2x, 4x, 8x or 16x<br>▶▶ : Fast play the video playback at the speed of 2x, 4x, 8x or 16x<br>II : Temporarily freeze the video playback<br>■ : Stop video playback<br>Use the buttons in navigating OSD menu to :<br>◀◀ ▶▶ : Move to the left and right<br>II ■ : Change the setting<br>▶ : Make a selection |
| (6) | IR Sensor : | Receive the signal from the remote control to operate the unit |
| (7) | DVR Power LED : | Lights when the unit is on |
| (8) | HDD LED : | Indicate running state of the hard disk. Lights when the HDD is running |
| (9) | WiFi Antenna | To enhance wireless signal |
| (10) | USB 2.0 Port : | Connect to PC for video transfer or playback |
| (11) | Removable HDD Power switch | Power on/off removable hard disk |
| (12) | Removable HDD drawer : | For installing SATA hard disk<br> Make sure to **TURN OFF** the unit **BEFORE** removing the hard disk |

## 1.4 Back Panel




| Name | | Function |
|---|---|---|
| (1) | WiFi Antenna | To enhance wireless signal |
| (2) | LAN Port : | For Ethernet connection |
| (3) | Audio In : | Input the audio signal from a microphone or audio output device.<br>ⓘ The audio input device needs to be powered by external power. |
| (4) | Audio Out : | Output the audio signal to a speaker<br>ⓘ The audio output device needs to be powered by external power. |
| (5) | CH1/2/3/4 | Input the analog video camera signal and display it on channel 1/2/3/4 |
| (6) | Video Out (BNC) : | Output the video signal to a TV<br>⚠ The DVR unit support 2 video output ports and you can only select to output the video either from the VGA OUT or VIDEO OUT |
| (7) | VGA Out : | Output the video signal to a CRT or LCD monitor |
| (8) | Sensor In : | Support up to 4 sensor devices |
| (9) | Alarm Out : | Support 1 relay device (Relay: 1A @ 125V AC/30V DC) |
| (10) | RS485 : | For analogy PTZ camera connection (also see 1.5.3.1) |
| (11) | TV-VGA : | Switch to select the video output. Make sure to set the video output before turning on the unit |
| (12) | 12V DC : | Connect the power adapter into this port |

# 1.5 Setting Up the DVR Unit

## 1.5.1 Installing the Hard Disk

The DVR unit allows user to install one hard disk. Before installing the hard disk, make sure to set the hard disk master jumper setting. Adjust the jumper setting according to the instructions on the hard disk label.

- For hard disk spec, please referring to http://www.avermedia.com/nvd/hardware-recom_eb.asp
- EB1704HB WiFi only supports SATA hard disk.

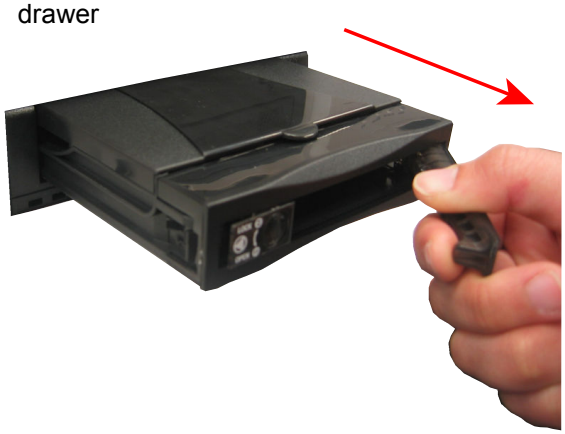
The "compatible hard disks" indicated in the above recommendation list only means that these commercially available hard disks were tested with AVerMedia® products and functioned well under normal operation conditions. AVerMedia® does not guarantee or provide warranties, explicitly, implied or statutory with respect to the reliability of the hard disk function or its compatibility. In no event AVerMedia® shall be liable for damages, with respect to any business interruption of clients, lost profits, loss of programs or other data on your information handling system or otherwise. This includes direct, indirect, incidental, special, or consequential damages, resulting from the incompatibility caused by the usage of these hard disks, even if AVerMedia® has expressly advised about the risk of such damages. The entire risk arising out of the use of any information attached here with is borne by the recipient.

Follow the illustrated instructions below to install the hard disk:

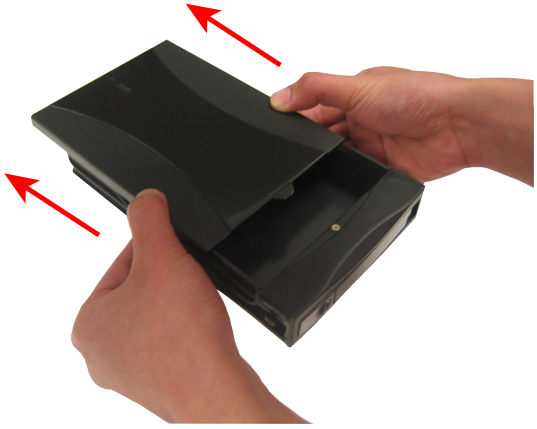
1. Unlock the removable hard disk drawer

2. Open the removable hard disk drawer

3. And then, pull out the removable hard disk drawer

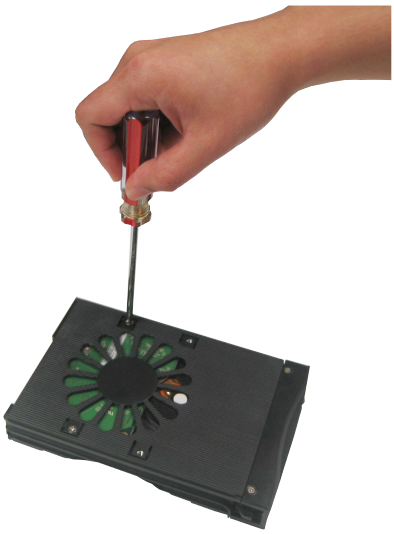


4. Remove the removable hard disk drawer cover



5. Carefully insert the hard disk in the removable rack

6. Turn the removable hard disk drawer over and screw hard disk with screws



7. And then, close the removable hard disk drawer cover

8. Slide the drawer back

9. Lock the removable hard disk drawer keylock

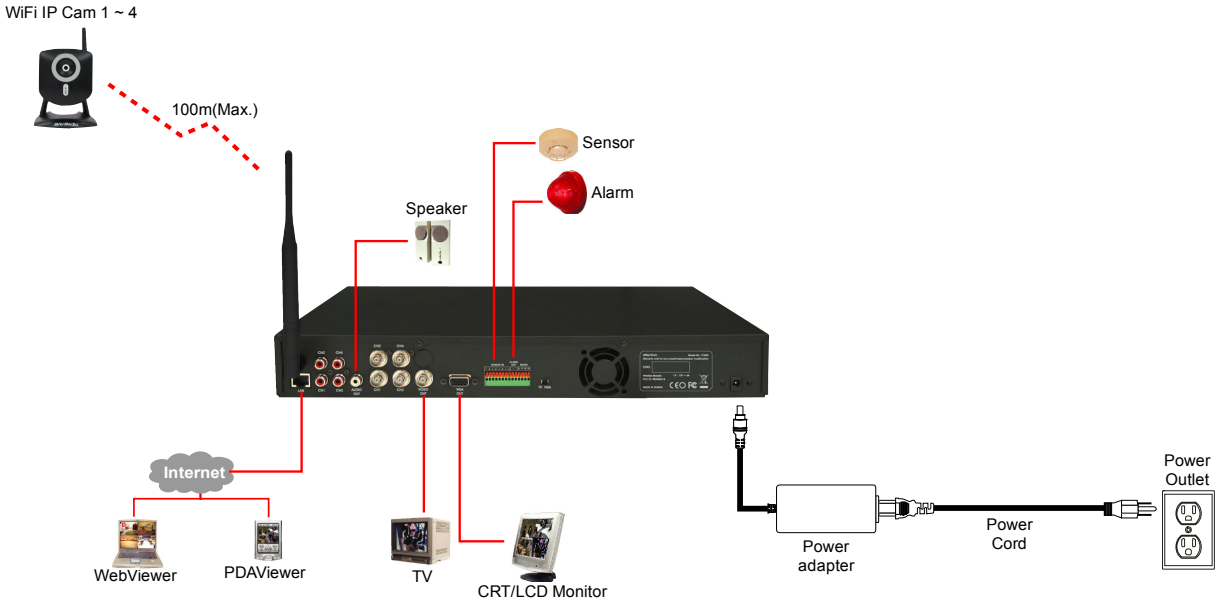
10. Power on the removable hard disk drawer

11. You may now connect all the cables. When the power is connected, the Power LED light turns on

## 1.5.2 Connecting Devices

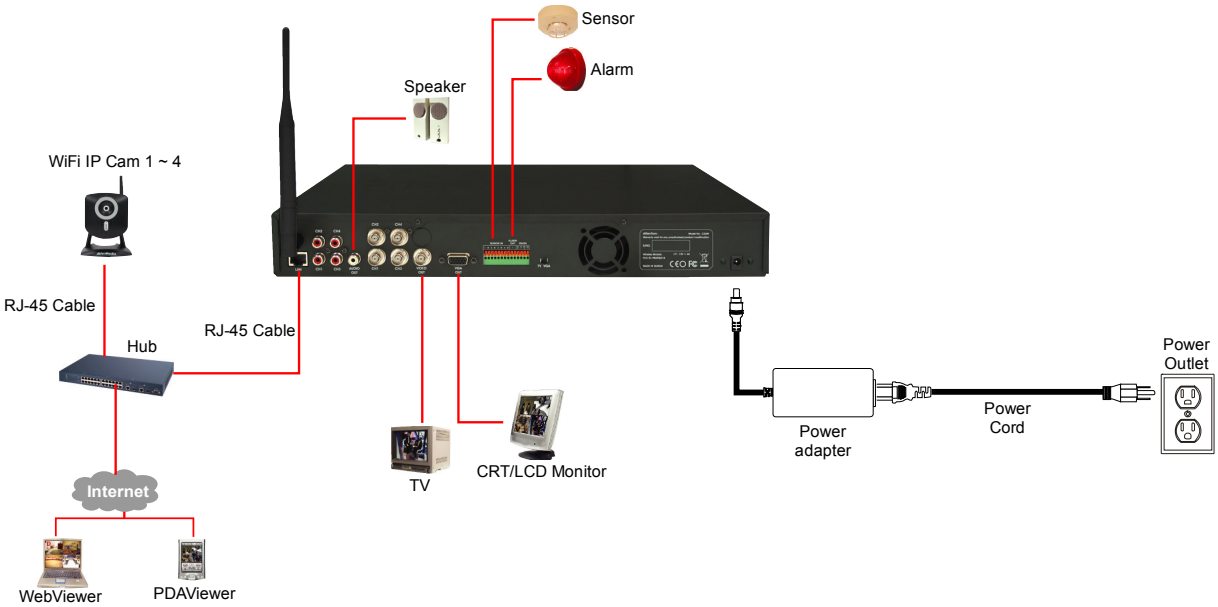
EB1704HB WiFi can connect 4 WiFi IP cameras through wireless signal within the maximum 100m distance (The distance of signal transmit may change due to the actual environment) at indoor. The back panel of the EB1704HB WiFi unit also provides 4 analog camera connection interfaces and 4 sensors, 1 alarm, a PTZ camera and, a VGA output video connection interface. Connecting the unit to a pen drive or external hard disk through USB connection for backup, then use the bundled software enables user to transfer, playback and segment the video.

### 1.5.2.1 WiFi IP Cameras Only

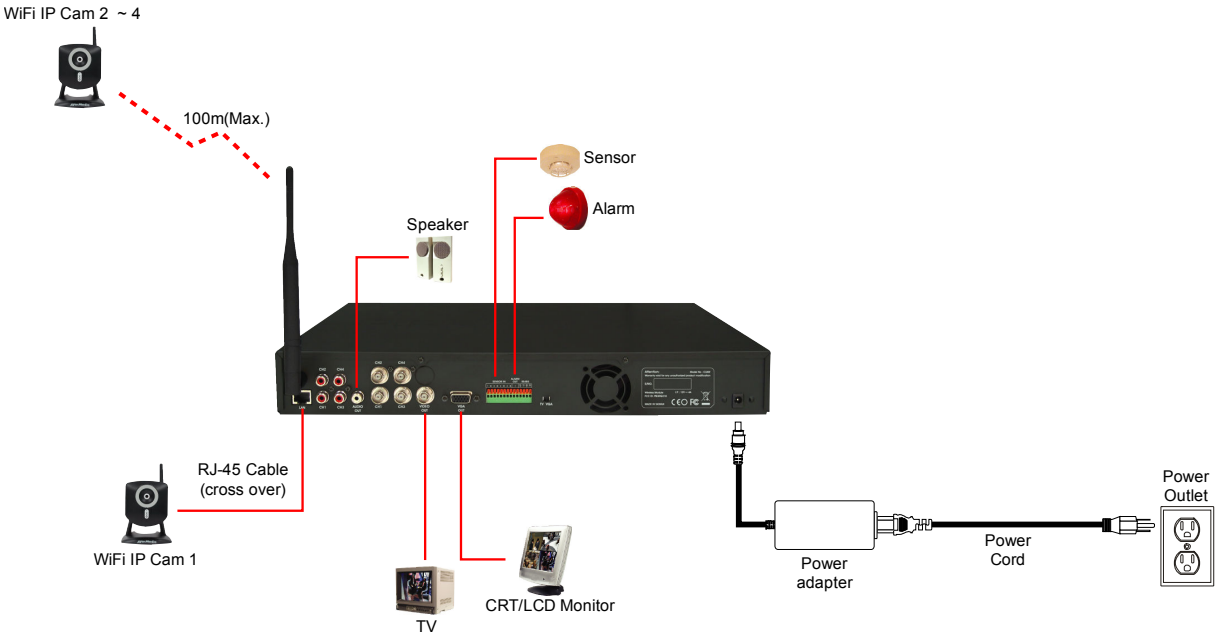


### 1.5.2.2 Using RJ-45 cable to connect WiFi IP Camera

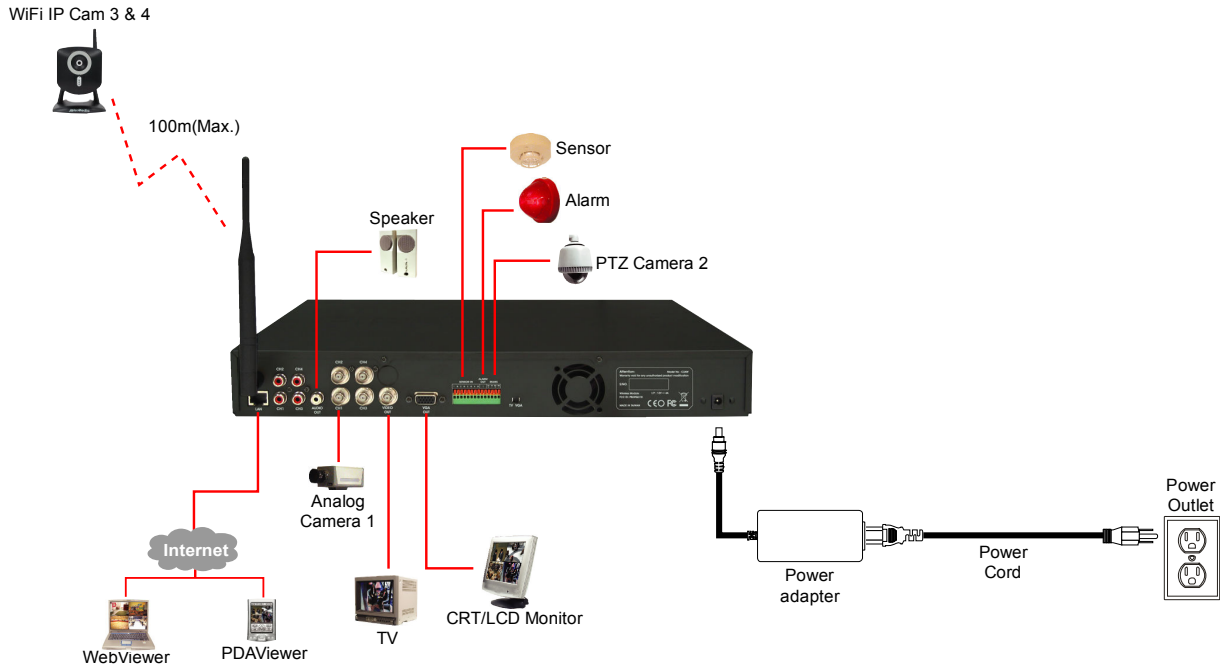
The WiFi IP camera provides a RJ-45 Ethernet port for user can using RJ-45 cable direct connect to hub or DVR unit.




OR



### 1.5.2.3 WiFi IP Camera and Analog Camera Combination

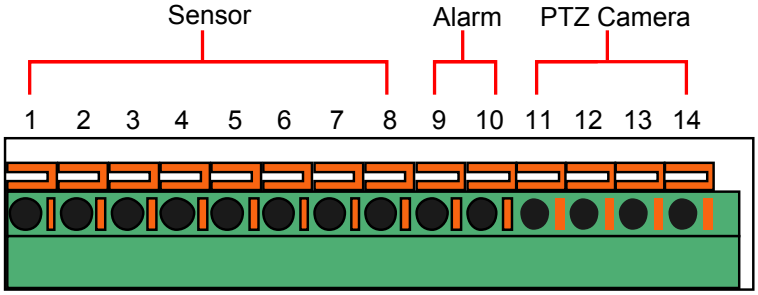



- Each time you change the video display output, the power must be turned **off** and **on** to reset the DVR unit.
- Each time you replace the WiFi IP camera, the WiFi IP camera must be turn **off** and **on**.

- The DVR can connect 4 cameras totally that includes WiFi IP camera, analog camera, and IP camera.
- All connected devices that include WiFi IP cameras need to be powered by external power.

## 1.5.3 Connecting the Sensor/Relay/PTZ Camera device

The Sensor, Alarm, and PTZ camera ports enable you to connect 4 sensor inputs, 1 relay outputs, and PTZ cameras. Just connect the external sensor, relay, and PTZ camera pin directly to the pinhole. Check the table below and locate which pinhole is assigned to sensor input and relay output.




### 1.5.3.1 Sensor and Relay pinhole allocation:

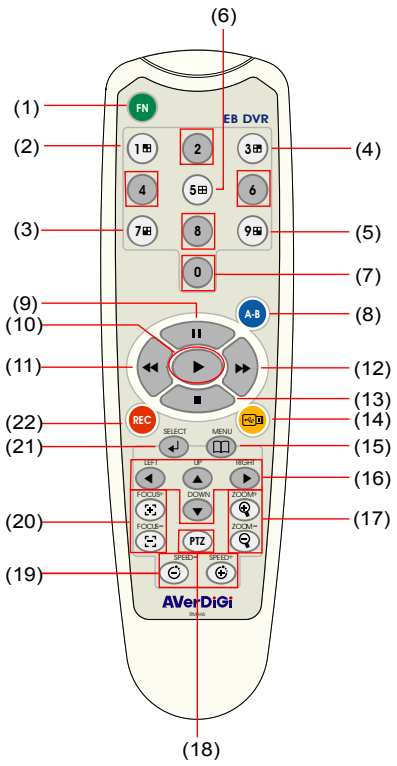
The signal from the sensor (i.e., infrared sensors, smoke detectors, proximity sensors, door sensors, etc.) is being transmitted to the unit and this triggers the system to respond and send signal to relay device (i.e., alarm, telephone etc).

| Pin # | Definition |
|---|---|
| **1** | Sensor 1 signal |
| **2** | Sensor 1 ground |
| **3** | Sensor 2 signal |
| **4** | Sensor 2 ground |
| **5** | Sensor 3 signal |
| **6** | Sensor 3 ground |
| **7** | Sensor 4 signal |
| **8** | Sensor 4 ground |
| **9** | Relay signal |
| **10** | Relay signal |
| **11** | RS485 TX+ signal |
| **12** | RS485 TX- signal |
| **13** | RS485 RX+ signal |
| **14** | RS485 RX- signal |

# Chapter 2 Operating the EB1704HB WiFi

## 2.1 Familiarizing the Remote Control Buttons

Use the Remote control to operate the OSD menu on surveillance screen.




| Button | | Function |
|---|---|---|
| (1) | FN | A functional key for multiple DVR system remote control |
| (2) | 1 | Switch to Channel 1 |
| | | As a number key for entering password |
| (3) | 3 | Switch to Channel 2 |
| | | As a number key for entering password |
| (4) | 7 | Switch to Channel 3 |
| | | As a number key for entering password |
| (5) | 9 | Switch to Channel 4 |
| | | As a number key for entering password |
| (6) | 5 | Switch to QUAD mode |
| | | As a number key for entering password |

| Button | | Function |
|---|---|---|
| (7) | 2, 4, 6, 8, 0 | As a number key for entering password |
| (8) | A-B | Set a playing recorded video from A point to B point segment and repeat playing on surveillance screen(See 2.1.1) |
| (9) | | Pause the playing |
| (10) | | To play the video |
| (11) | | Decrease the video playback at the speed of 2x, 4x 8x or 16x |
| (12) | | Fast play the video playback at the speed of 2x, 4x 8x or 16x |
| (13) | | Stop playing / Stop recording |
| (14) | | USB backup(see 2.1.2) |
| (15) | | To enter the OSD Main menu / Exit from the main menu or sub-menu display |

| Button | | Function |
|---|---|---|
| (16) | | To move the selection to the right |
| | | To move the PTZ camera lens to the right |
| | | To move the selection to the left |
| | | To move the PTZ camera lens to the left |
| | | To go up and select the items in the menu list or change the settings |
| | | To move the PTZ camera lens to go up |
| | | To go down and select the items in the menu list or change the settings |
| | | To move the PTZ camera lens to go down |
| (17) | ZOOM+ | To zoom in view of PTZ camera |
| | ZOOM− | To zoom out view of PTZ camera |
| (18) | PTZ | PTZ camera control button. Press PTZ + camera channel button(1 2 3 4)can enter PTZ mode to control PTZ camera.(see 2.1.3) |
| (19) | SPEED+ | To speed up movement of PTZ camera lens |
| | SPEED− | To speed down movement of PTZ camera lens |
| (20) | FOCUS+ | To focus in PTZ camera lens |
| | FOCUS− | To focus out PTZ camera lens |
| (21) | | Make a selection |
| | | Enter sub-menu |
| (22) | REC | Start video recording |

## 2.1.1 Using AB Repeat Function

AB Repeat function allow user to set a video segment from A to B point and play on the surveillance screen until user stop. User also can backup AB Repeat file to pen drive or external hard disk (See 2.1.2).

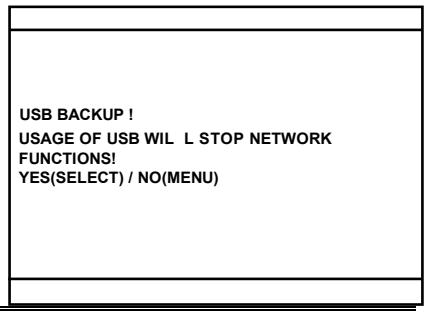
1. Press ▶ (play button) to call out the **SEARCH MODE** menu to find the recorded video that user wants to playback.
2. Select **TIME SEARCH** or **EVENT LIST**.
   - **TIME SEARCH** (search by date and time): select the date and time from where you want to begin the video playback.
   - **EVENT LIST** (search by condition): select from the list.
3. During the playback, press A-B to set the

A point of video segment. And then, press A-B again to set the B point of video segment. On the surveillance screen will display "**A-B**" and repeat playing the AB point video segment which user has set. To cancel AB repeat, press A-B again.

## 2.1.2 Using USB Backup Button

User can press button to backup the AB Repeat video file.

1. Set the AB Repeat file (see 2.1.1).
2. Plug in pen drive or external hard disk to DVR system.
3. During the AB Repeat playback, press button.
4. And then, press (YES) to start backup file or press (NO) to exit backup mode.




The external hard disk needs to be powered by external power.

## 2.1.3 Controlling Analog PTZ Camera

Using remote control, user can easily control PTZ camera at local site. Before starting, please go to OSD menu to enable PTZ control (see 3.1 Menu Function: PTZ Setup).

### 2.1.3.1 To Enter the PTZ Mode

To control PTZ camera, user need to enter the PTZ mode first. Press PTZ button, and camera channel number button (1 2 3 4). The surveillance monitor will switch to single screen and display "**PTZ mode**" on the screen.

To exit PTZ mode, press PTZ and 0 button. Also, when user doesn't have any action over 1 minute, the system will automatically exit PTZ mode.

### 2.1.3.2 To Set Preset Position

User can set 9 preset positions for PTZ camera. Using 1 to 9 button to set the preset position.

1. Press PTZ and camera channel number button (1 2 3 4) to enter PTZ mode.
   For example: PTZ + 1 to switch to channel 1.
2. Using ▲, ▼, ◄ and ► to adjust the PTZ camera to the position that user wants.
3. Press any number button over 3 seconds and the position will be saved.
4. To move the PTZ camera to preset position, just press the number button.
5. To exit PTZ mode, press PTZ and 0 button. Also, when the idle time of system is over 1 minute, the system will automatically exit PTZ mode.

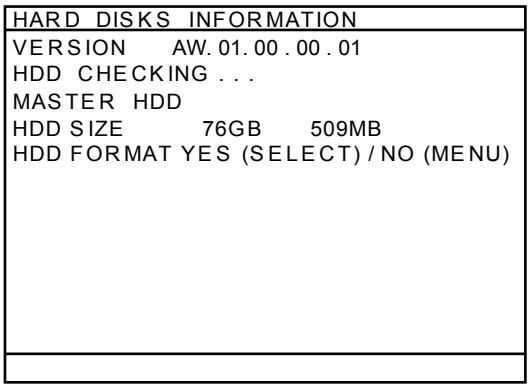
### 2.1.3.3 To Control PTZ Camera

To move, adjust focus, and zoom in/out camera lens can be done by using some function buttons on the remote control.

| | |
|---|---|
| ► | To move the PTZ camera lens to the right |
| ◄ | To move the PTZ camera lens to the left |
| ▲ | To move the PTZ camera lens to go up |
| ▼ | To move the PTZ camera lens to go down |
| ZOOM+ | To zoom in PTZ camera |
| ZOOM− | To zoom out PTZ camera |
| SPEED− | To speed down movement of PTZ camera lens |
| SPEED+ | To speed up movement of PTZ camera lens |
| FOCUS+ | To focus in PTZ camera lens |
| FOCUS− | To focus out PTZ camera lens |

## 2.2 Using the DVR for the First Time

Upon connecting the power, the unit automatically detects the status of the hard disk. The hard disk must be formatted before user can use it with EB1704HB WiFi. If you are prompt to format the hard disk, press (select) for **YES** to format the hard disk and (menu) for **NO** to remain unchanged.



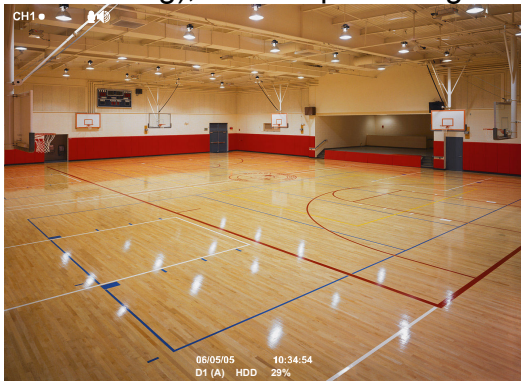

### 2.2.1 Set up the System Date and Time

Before starting record video, adjust the date and time first.

1. Press to call up the OSD menu and then use and to go up and down and select **Submenu**. And then, press or to confirm the selection.
2. In Submenu, use and to go up and down and select the **Time Setup** and press again to make a selection. And then, use and to select the Date and press or to confirm the selection.
3. To adjust the date, use and or and buttons to move the selection to the left and right.
4. To adjust Time, follow the above step 2 and 3.
5. Press to go back to main menu after adjustment.

## 2.3 Surveillance Screen

To know if the channel is being recorded, the "●" record symbol would appear beside the channel number. The (microphone) and (speaker) indicate that the audio is available. The information below the screen shows the current date and time, recording mode (record schedule setting), and the percentage of the used hard disk space.




Full mode Screen Preview

QUAD mode Preview

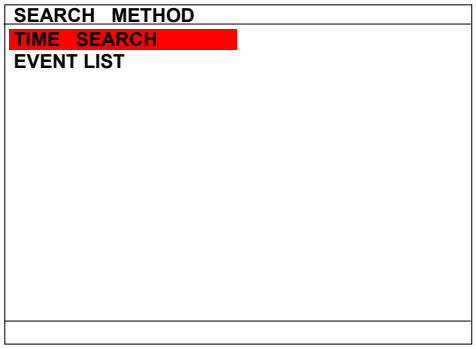
When you are in full screen preview, press the following buttons on the remote control to switch to different channel, or preview all 4 channels:

| 1 | 3 | 7 | 9 | 5 |
|---|---|---|---|---|
| CH1: Camera1 | CH2: Camera 2 | CH3: Camera 3 | CH4: Camera 4 | QUAD: 4-Channel |

## 2.4 Playback the Video

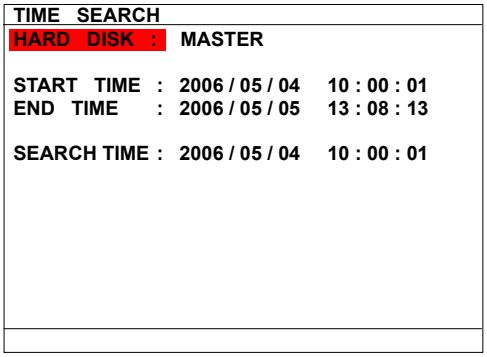
The DVR system can record and playback video simultaneously. Therefore, user doesn't need to stop recording while playback the video.

1. Press ▶
2. Use the ▲ and ▼ buttons to go up and down and select **TIME SEARCH** or **EVENT LIST**. Then, press ↵ or ▶ to make a selection.




**TIME SEARCH** (search by date and time):

1. Use the ▲ and ▼ buttons and select **SEARCH TIME**. Then press ↵ or ▶ again to make the selection.
2. In the **SEARCH TIME**, user may now select the date and time from where you want to begin the video playback.

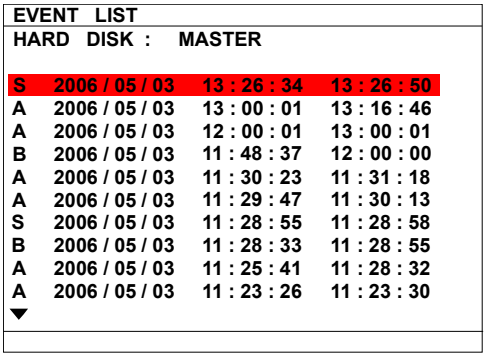



Use the ◀ and ▶ or ◀◀ and ▶▶ buttons to move the selection to the left and right. Use the ▲ and ▼ buttons to select the date and time. Then press ↵ or ▶ again to make the selection.

3. To start video playback, the time in second must be set. Use the ▶ buttons to move the selection to the right most. Use the ▲ and ▼ buttons and select the time in second. Then press ↵ or ▶.

**EVENT LIST** (search by event):

1. Use the ▲ and ▼ buttons to select from the list. Press ↵ or ▶ again to make the selection. User ⏸ and ■ to go next page or back to previous page.
2. Listed below are the following recording conditions:



**A** – Always Recording

It records non-stop and automatically continue recording when interrupted

**S** – Sensor Recording

It records when the sensor has been triggered

**M** – Motion Recording

It records when any movement has been detected

**B** – Button Recording

It records when the REC record button is pressed

**3.** The " ▸ " play symbol would appear beside the channel number when you are previewing in playback mode.

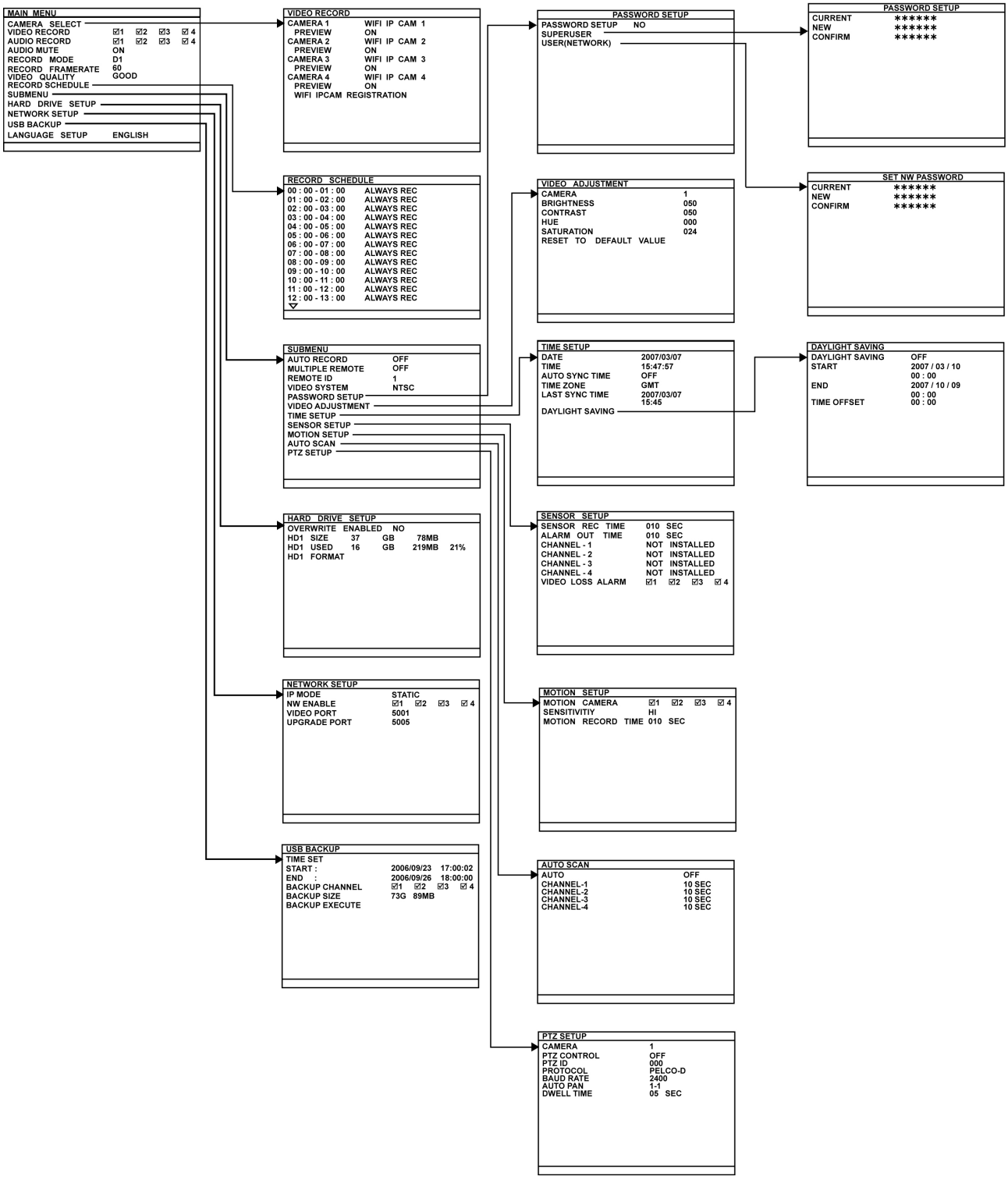
---

To playback the recording files during the daylight saving period; please select **Event List** to find the event that user wants to playback. On the first day and last day of daylight saving only has on record in **Time search**, so user can't find the specific playback file in time search.

---

# Chapter 3 OSD Navigation Tree

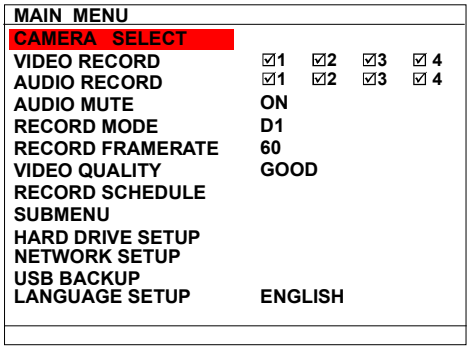
The follow figure is an OSD menu tree map. To call out the OSD menu, press on the remote control.



# 3.1 Menu Function

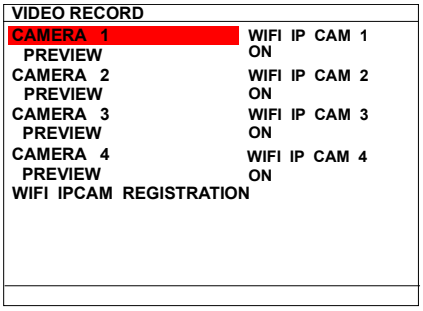
If the unit is currently recording the video, user may have to stop video recording to change the settings. Use remote control to navigate in the OSD menu. The red frame turns yellow when you are making a selection.

| OSD MENU | Description |
|---|---|




### CAMERA SELECT

Select the camera type (WiFi IP camera or analog) and enable/disable the channel number to display the video on the surveillance screen. The WiFi IP cameras has been registered in the DVR system when out of factory and each WiFi IP camera has a number on it that represents each camera's number. The WiFi IP camera will be disabled when analog camera is selected. The WiFi IP camera can be replaced when the original WiFi IP camera is damaged. To replace a new WiFi IP camera, please refer to **WIFI IPCAM REGISTRATION**.



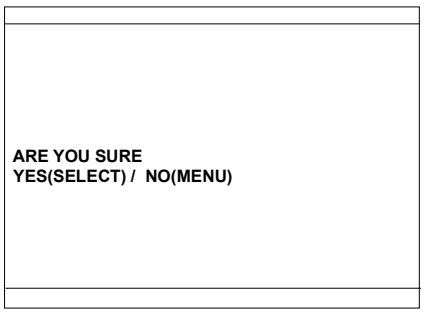

### WIFI IPCAM REGISTRATION

When WiFi IP camera needs to replace new one, user **MUST** register the new WiFi IP camera in order to connect and transmit the video to DVR system. Follow the below steps to register WiFi IP camera:

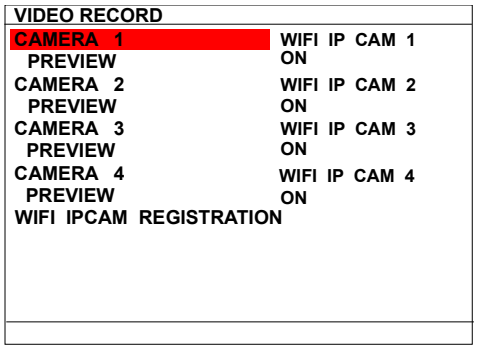
1. Disconnect the original WiFi IP camera power
2. Connect the new WiFi IP camera to DVR system through cross over RJ-45 cable or using RJ-45 cable connect camera to hub on the LAN which is same as DVR system located.

> The IP address of the DVR system needs to be configured for the WiFi IP camera searching.

3. Select the **CAMERA SELECT** → **WIFI IPCAM REGISTRATION**
4. Press **YES (SELECT)** to start register process. To cancel the registration, press **NO (MENU)**.

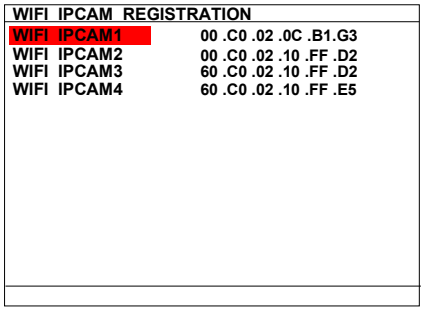


| OSD MENU | Description |
|---|---|

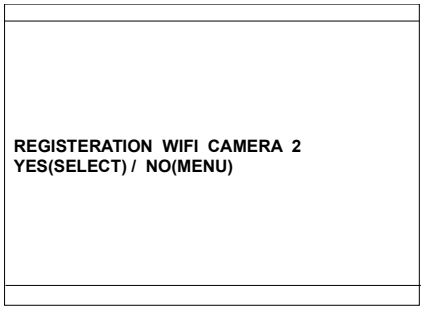



5. Select the **WIFI IPCAM #** that is needed to be replaced. If the WiFi IP camera has been resisted, the DVR system won't be able to register again.

The WIFI IPCAM# is corresponding to the number on the WiFi IP camera.


WIFI IPCAM REGISTRATION
WIFI IPCAM1 00 .C0 .02 .0C .B1.G3
WIFI IPCAM2 00 .C0 .02 .10 .FF .D2
WIFI IPCAM3 60 .C0 .02 .10 .FF .D2
WIFI IPCAM4 60 .C0 .02 .10 .FF .E5

6. Press **YES (SELECT)** to confirm the WiFi IP camera registration again. To cancel the registration, press **NO (MENU)**.




7. The DVR system will start searching WiFi IP camera.
8. When the new WiFi IP camera has been found and new IP camera's MAC will showed, the registration is complete.
9. After registered, WiFi IP camera needs to restart (power on and off). And then, wait about 45~55 seconds, the video should be display on surveillance screen.
10. If DVR system could not find the new WiFi IP camera, please check the following few points:
    - The IP address of DVR system is configured
    - The DVR unit and the WiFi IP camera are located on the same LAN and both are well connected to the LAN network.
    - The WiFi IP camera does not been registered to this DVR system before.

**VIDEO RECORD**

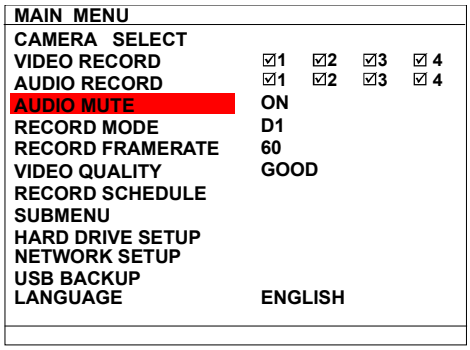
Enable/disable the channel number to record video

The channels which could be recorded should be enabled in the **CAMERA SELECT** first.

**AUDIO RECORD**

Enable/disable audio recording. To record sound, make sure the audio input device(ex: microphone) is connected to the unit

| OSD MENU | Description |
|---|---|




## AUDIO MUTE

Enable/disable to hear audio sound. To hear sound, make sure the unit is connected to an audio output device (ex: speaker). If user recorded video in audio mute status, there is no sound when playback

The audio input and output device need to be powered by external power.

## RECORD MODE

Select D1/CIF recording mode

Under D1 mode, the video recording is in full screen resolution and takes turns from one channel to the next one when Auto Scan enables. Each channel is recorded only at a maximum frame rate of 15fps. User can switch to view the video in full screen or QUAD screen

Whereas in CIF mode, video recording is at a lower resolution, but each video is recorded in 30fps/25fps (NTSC/PAL). User can switch to view the video in full screen or QUAD screen

## RECORD FRAMERATE

Set the number of frames per second to be recorded. Refer to the table below for the available record frame rate settings. The higher the frame rate is, it uses more hard disk space

| Video Standard / Record Mode | NTSC | PAL |
|---|---|---|
| D1 | 60, 20, 4 | 48, 20, 4 |
| CIF | 120, 60, 40, 20, 4 | 100, 48, 20, 4 |

## VIDEO QUALITY

Select the video quality setting from BEST, HIGH, MEDIUM, GOOD, NORMAL or LOW.

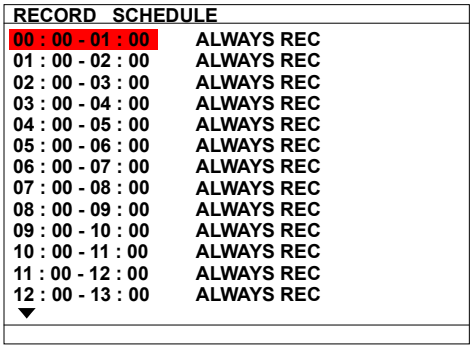
BEST – best record quality but less record hours

LOW – longest record hour but quality is ordinary

NORMAL – allows you to record more hours but the quality of the recorded video is moderate.

## LANGUAGE SETUP

Select from the available languages

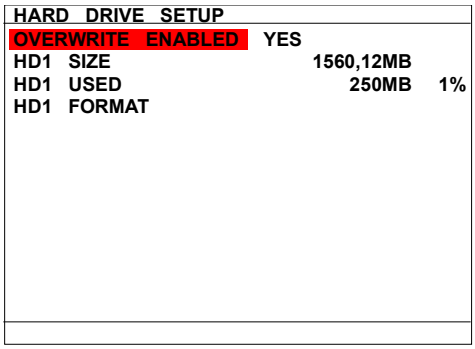

RECORD SCHEDULE
00 : 00 - 01 : 00 ALWAYS REC
01 : 00 - 02 : 00 ALWAYS REC
02 : 00 - 03 : 00 ALWAYS REC
03 : 00 - 04 : 00 ALWAYS REC
04 : 00 - 05 : 00 ALWAYS REC
05 : 00 - 06 : 00 ALWAYS REC
06 : 00 - 07 : 00 ALWAYS REC
07 : 00 - 08 : 00 ALWAYS REC
08 : 00 - 09 : 00 ALWAYS REC
09 : 00 - 10 : 00 ALWAYS REC
10 : 00 - 11 : 00 ALWAYS REC
11 : 00 - 12 : 00 ALWAYS REC
12 : 00 - 13 : 00 ALWAYS REC

## RECORD SCHEDULE

By default, in 24 hours, the recording schedule is set to always record every hour. Refer to the table below to customize the recoding condition

| Condition | Description |
|---|---|
| NO REC | Disable video recording |
| ALWAYS REC | Record non-stop |
| MOTION REC | Start recording when any movement is detected |
| SENSOR REC | Start recording when the sensor has triggered |
| BUTTON REC | Start recording when the record button is pressed |

| OSD MENU | Description |
|---|---|




* HD1 SIZE shows the total capacity of the hard disk.
* HD1 USED shows the amount and the percentage of space that has been used.

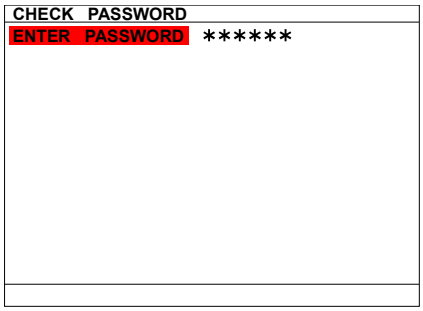
**OVERWRITE ENABLED**

Enable/disable overwriting the earliest record when the hard disk space runs out. By default, the HDD overwrite setting is enabled

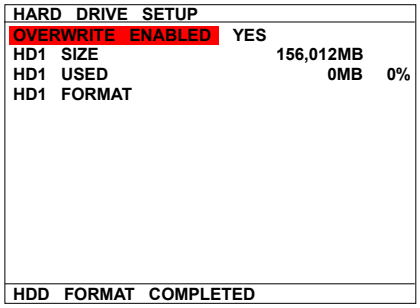
**HDD FORMAT**

For security purpose, you may have to enter the password to format hard disk
To format hard disk:

1. Use the ▲ and ▼ buttons to go up and down and select **HDD FORMAT**. Then press ↵ or ▶
2. In the **CHECK PASSWORD** screen, press ↵ or ▶. Then use the ▲ and ▼ buttons to select the security combination number. Repeat till you key in the last number. Also, user can use the number button on the remote control to enter the password. Press ↵ or ▶ button again to make the selection. To move the selection to the left and right, use ▲ and ▼ buttons

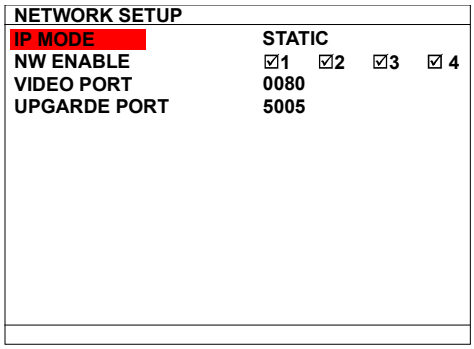



3. After entering the last number, the system will format the hard disk
4. It is done when the "**HDD FORMAT COMPLETED**" appears




⚠ Formatting the hard disk will permanently delete all the records and can no longer be retrieved

| OSD MENU | Description |
|---|---|




## NETWORK SETUP

Setup the network parameters for the internet or intranet remote monitor or playback.

### IP MODE

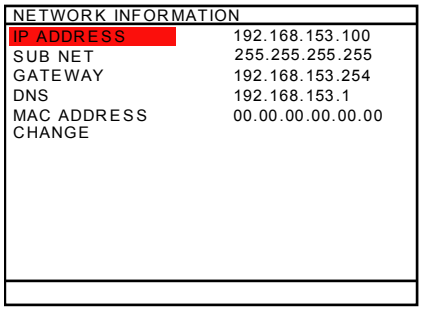
The system provides 3 types of IP setup mode – STATIC, DHCP, and PPPOE.

Use ▲ and ▼ buttons to go up and down and select **IP MODE**, and then press ↵. Use ▲ and ▼ buttons to change the selections and press ↵ or ▶ to make a selection.

- **STATIC:** Assigns a constant IP address for the DVR system. Use ▲ and ▼ buttons to go up and down and select items, and then press ↵ or ▶ to make selection. Use ◀ and ▶ to move left and right to select or enter the configuration value.
  - **IP ADDRESS:** Assign a constant IP address which a real IP addresses give from ISP to DVR system.

> ⓘ Do Not assign the DVR to 1.0.0.0 network segment. It will cause the DVR can not access to Internet due to the un-recognize to 1.0.0.0 IP segment.

  - **SUBNET:** It is a bitmask used to identify the sub network and how many bits provide room for host addresses. Enter the subnet mask of the IP address which user has assigned to DVR system.
  - **GATEWAY:** A network device act as a passageway to internet. Enter the network gateway IP address
  - **DNS:** Domain Name Server translates domain names (such as www.abb.com.tw) to IP addresses. Enter the IP address of DNS if it is available.
  - **MAC ADDRESS:** Only for user information. Don't need to enter the MAC address.
  - When all parameters are set, select the **CHANGE** to confirm the configuration.



| OSD MENU | Description |
|---|---|

NETWORK SETUP

| | |
|---|---|
| IP MODE | DHCP |
| NW ENABLE | ☑1 ☑2 ☑3 ☑ 4 |
| VIDEO PORT | 0080 |
| UPGARDE PORT | 5005 |

■ **DHCP:** Assign the IP address by local DHCP server to DVR system. Use ▲ and ▼ buttons to go up and down and select **DHCP**, and then press ↵ or ▶ to make selection.

The DHCP (Dynamic Host Configuration Protocol) is a set of rules used by a communications device (such as a computer, router or networking adaptor) to allow the device to request and get an Internet address from a server which has a list of addresses available for assignment

The DVR system will try to get an IP address from the DHCP server. A message window will show up as below:

GET IP NOW! WAITING...

When DVR system gets an IP address from DHCP server, the information will display as below:

NETWORK INFORMATION

| | |
|---|---|
| IP ADDRESS | 192.168.153.100 |
| SUB NET | 255.255.255.255 |
| GATEWAY | 192.168.153.254 |
| DNS | 192.168.153.1 |
| MAC ADDRESS | 00.00.00.00.00.00 |

If system didn't get any network information, it means that get IP from DHCP server fail.

NETWORK INFORMATION

| | |
|---|---|
| IP ADDRESS | 000.000.000.000 |
| SUB NET | 000.000.000.000 |
| GATEWAY | 000.000.000.000 |
| DNS | 000.000.000.000 |
| MAC ADDRESS | FF.FF.FF.FF.FF.FF |

| OSD MENU | Description |
|---|---|

NETWORK SETUP

| | |
|---|---|
| IP MODE | PPPOE |
| NW ENABLE | ☑1 ☑2 ☑3 ☑ 4 |
| VIDEO PORT | 0080 |
| UPGARDE PORT | 5005 |

■ **PPPOE:** Point-to-Point Protocol over Ethernet is a network protocol for encapsulating PPP frames in Ethernet frames. It is used mainly with ADSL services. If your network is using ADSL service connecting to internet, and then, select PPPOE mode. Use ▲ and ▼ buttons to go up and down and select **PPPOE**, and then press ↵ or to make selection. A message window will show up as below:

GET IP NOW! WAITING...

When DVR system get an IP address, the information will display as below:

NETWORK INFORMATION

| | |
|---|---|
| IP ADDRESS | 192.168.153.100 |
| SUB NET | 255.255.255.255 |
| GATEWAY | 192.168.153.254 |
| DNS | 192.168.153.1 |
| MAC ADDRESS | 00.00.00.00.00.00 |
| CHANGE | |

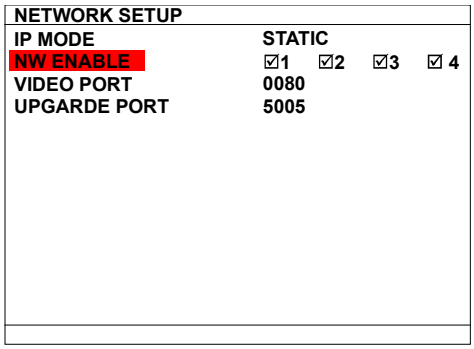
If system didn't get any network information, it means that get IP from PPPOE server fail.

NETWORK INFORMATION

| | |
|---|---|
| IP ADDRESS | 000.000.000.000 |
| SUB NET | 000.000.000.000 |
| GATEWAY | 000.000.000.000 |
| DNS | 000.000.000.000 |
| MAC ADDRESS | FF.FF.FF.FF.FF.FF |

Please go to 8.1.1.5 Network Setup # PPPOE to setup PPPOE account and password for connecting to PPPOE server.

| OSD MENU | Description |
|---|---|




**NW ENABLE**

Allow internet remote user to playback or monitor the channels. Without enabling the network function, the channels cannot be playback or monitor from remote site.

☐ 1 is Channel 1 ☐ 2 is Channel 2
☐ 3 is Channel 3 ☐ 4 is Channel 4

Use ▲ and ▼ buttons to go up and down and select **NW ENABLE** (network enable), and then press ↵ or ◄ and ► to move to the selection. Use ▲ and ▼ buttons to change the selections values and press ↵ or ► to confirm.

**VIDEO PORT**

A port for the remote connection. Any port can be assigned as a video port, except the ports already used by the network services. The default video port is 80.

Use ▲ and ▼ buttons to go up and down and select **VIDEO PORT**, and then press ↵ or ◄ and ► to move to the selection. Use ▲ and ▼ buttons to change the selections values and press ↵ or ► to confirm.

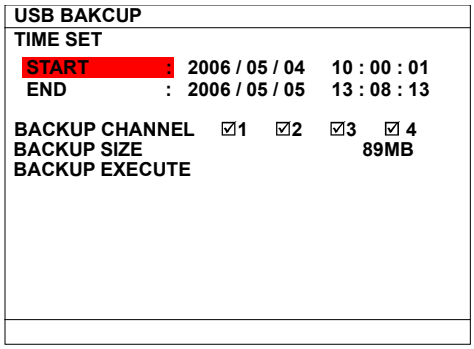
**UPGRADE PORT**

A port for the remote update DVR system firmware. Any port can be assigned as an upgrade port, except the ports are already used by the network services. The default upgrade port is 5005. **For Upgrading DVR firmware, please contact your local dealer.**

Please **DO NOT** cut off the power of the DVR system while the firmware is upgrading. Power failure will cause the permanent damage of the DVR system.

Use ▲ and ▼ buttons to go up and down and select **UPGRADE PORT**, and then press ↵ or ◄ and ► to move to the selection. Use ▲ and ▼ buttons to change the selections values and press ↵ or ► to confirm.

| OSD MENU | Description |
|---|---|

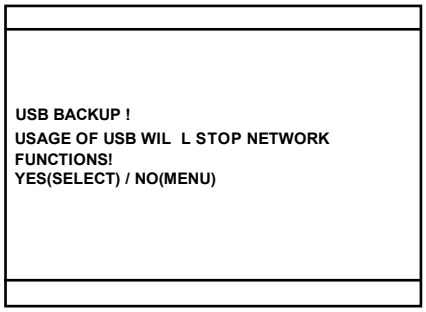



## USB BACKUP

Using USB device (ex. Pen drive or External Hard disk) to backup partial recorded video and playback on PC.

Use ▲ and ▼ buttons to go up and down and select **USB BACKUP**, and then press ↵ or ▶. Use ◀ and ▶ to move left and right. And, use ▲ and ▼ buttons to change the value and press ↵ or ▶ to confirm.

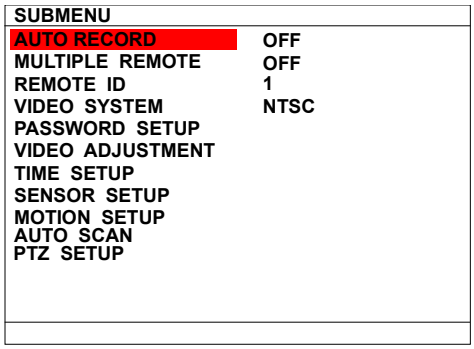
1. Select the **START TIME** and **END TIME**.
2. Select the channels which user wants to backup.
3. The DVR system will display the system hard disk space and backup file size.
4. And then, select **BACKUP EXECUTE** to start backup video to the USB device.
5. When backup is done, press any key to back to main menu.




6. To view the backup file, using USB Playback Application(see 4.3)

- Remember to plug in the USB device before starting to backup.
- The DVR system doesn't supply the power to external hard disk. Therefore, the external hard disk must be power supplied by self.

| OSD MENU | Description |
|---|---|




### AUTO RECORD

Enable/disable auto continue recording when interrupted (i.e., power breakdown, video playback or configuration setup). It continue recording after 10 second of idleness. This is applicable in Always Record mode.

### MUTLIPLE REMOTE

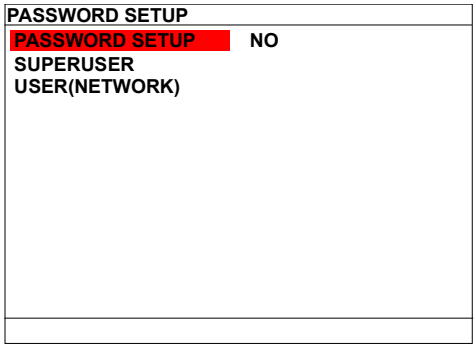
Enable/disable multiple DVR system remote control. When user has more than one DVR system, user can use **MULTIPLE REMOTE** function to control all DVR system by single remote control.

### REMOTE ID

Assign the ID number for multiple DVR system remote controls. When there are more than one DVR systems, user can enable MULTIPLE REMOTE function, and then assign REMOTE ID to each DVR system. Then, user can just use one remote control to control all DVR system by pressing REMOTE ID. To remote control multiple DVR systems, press FN and number key (remote ID number) on the remote control.

### VIDEO SYSTEM

DVR system will auto detect the video system and display

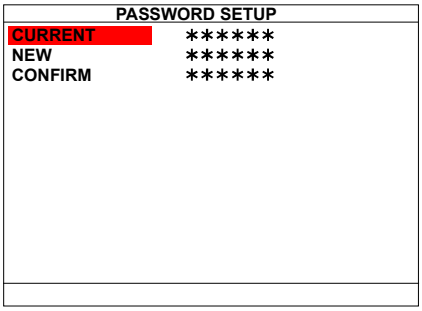



### PASSWORD SETUP

Enable/disable full system password protection. This would prevent unauthorized user to stop video recording, change system settings and formatting the hard disk.
Use the number button on the remote control to enter the password. Or use ▲ and ▼ button to the select the security combination number. Press ↵ or ▶ button to confirm.

### SUPERUSER

Superuser has the authority of formatting hard disk, changing system settings, remote monitor the DVR system and changes the system settings. The factory default password is 111111.



| OSD MENU | Description |
|---|---|

PASSWORD SETUP

| | |
|---|---|
| PASSWORD SETUP | NO |
| SUPERUSER | |
| USER(NETWORK) | |

### USER(NETWORK)

The login account for remote connection through the internet. User account only can view and playback recorded video by Web viewer (ex: Internet Explorer), but no authority to change the DVR system's setting. The factory default password is 111111.

PASSWORD SETUP

| | |
|---|---|
| CURRENT | ****** |
| NEW | ****** |
| CONFIRM | ****** |

---

VIDEO ADJUSTMENT

| | |
|---|---|
| CAMERA | 1 |
| BRIGHTNESS | 050 |
| CONTRAST | 050 |
| HUE | 000 |
| SATURATION | 024 |
| RESET TO DEFAULT VALUE | NO |

### VIDEO ADJUSTMENT

Select the camera number and set to adjust the video brightness, contrast, hue, and saturation value.

---

TIME SETUP

| | |
|---|---|
| DATE | 2007 / 03 / 12 |
| TIME | 15 : 45 : 57 |
| AUTO SYNC TIME | OFF |
| TIME ZONE | GMT |
| LAST SYNC TIME | 2007 / 03 / 12 12 : 00 : 00 |
| DAYLIGHT SAVING | |

### TIME SETUP

Setup system date, time, daylight saving, and enable auto synchronize time through network.

### DATE

Set the current date

### TIME

Set the current time

### AUTO SYNC TIME

Enable/disable time synchronization automatically through network. The DVR system will auto synchronize time from NTP servers. The first time synchronize will be 6 hours later after system power up. When the daylight saving is enabling, the auto time synchronization will be stopped.

- User need to setup the NTP server's URL or IP address. Please go to 8.1.1.1 System Setting #(3) NTP Setting to setup the NTP server.
- If the NTP server doesn't setup, the auto synchronize time function will not work correctly.

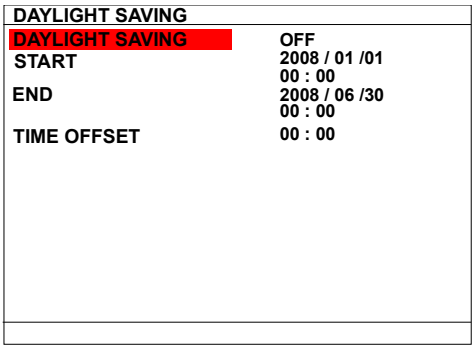
### TIME ZONE

Select the time synchronization time zone. The time zone will base on GMT (Greenwich Mean Time) time zone.

### LAST SYNC TIME

Display the latest time synchronization date and time.

| OSD MENU | Description |
|---|---|




### DAYLIGHT SAVING

To enable/disable daylight saving function.

### START

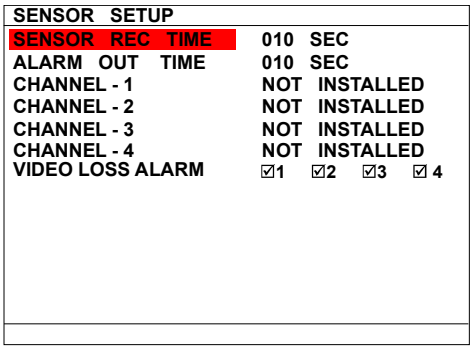
Setup daylight start up date and time.

### END

Setup daylight stop date and time.

### TIME OFFSET

Assign a time that it is for daylight saving time offset in your time zone. For example: if the time zone is in U.S. Eastern, the time offset is 1 hour.


SENSOR SETUP
SENSOR REC TIME 010 SEC
ALARM OUT TIME 010 SEC
CHANNEL - 1 NOT INSTALLED
CHANNEL - 2 NOT INSTALLED
CHANNEL - 3 NOT INSTALLED
CHANNEL - 4 NOT INSTALLED
VIDEO LOSS ALARM ☑1 ☑2 ☑3 ☑4

### SENSOR REC TIME

Set the amount of time (in second) to start record when the sensor has triggered

### ALARM OUT TIME

Set the amount of time (in second) to continue sending the alarm once triggered

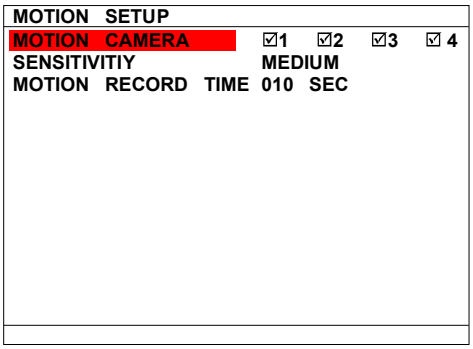
### CHANNEL 1~4

Customize the initial state of the attached sensor. Refer to the table below to customize the sensor state

| Condition | Description |
|---|---|
| NOT INSTALLED | Indicates that there is no sensor connected |
| NORMAL OPEN | Indicates that the initial state of the sensor is normal open. Video recording initiates when there is a changes in the sensor state |
| NORMAL CLOSE | Indicates that the initial state of the sensor is normal close. Video recording initiates when there is a changes in the sensor state |

### VIDEO LOSS ALARM

Select the channel when the video loss that the DVR system will send out a alarm




### MOTION CAMERA

Enable/disable the channel number to detect motion.

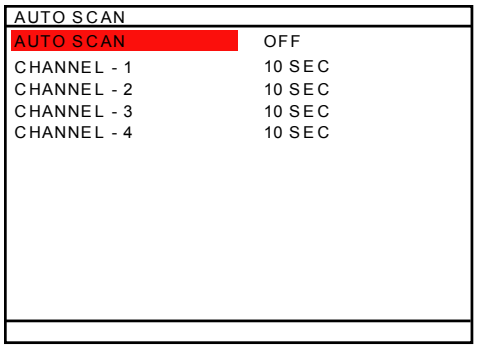
### SENSITIVITY

Set the sensitivity level. The sensitivity is from H (High), 9~ 2 and L (Low).

### MOTION RECORD TIME

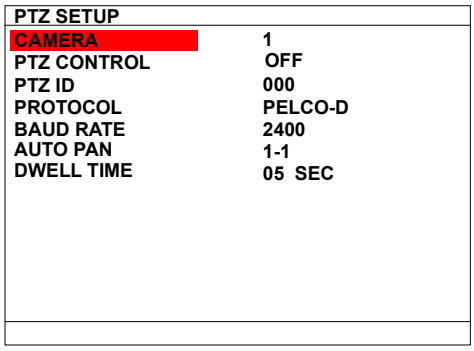
Set the amount of time (in second) to record when motion is detected.

| OSD MENU | Description |
|---|---|




**AUTO SCAN**

Enable/disable auto cycle switch to display the next channel when in full screen preview. User can set different switch time for each channel. The time range is from 5 ~30 seconds.




**PTZ SETUP**

To enable PTZ camera control by remote control and setup PTZ camera parameters.

1. Press and select **SUBMENU → PTZ SETUP**.
2. Use the and to go up and down to select the item and change the parameter value.
3. Use or button to enter the configure mode. Press or button to confirm the selection.

**CAMERA**

Select the channel of PTZ camera. If the PTZ camera is connecting on channel 1, then select the camera 1 for PTZ video to be display on channel 1.

**PTZ CONTROL**

To enable/disable PTZ camera can be controlled by remote control at local site.

**PTZ ID**

Assign an ID to PTZ camera. The ID range is from 001 to 255 but is limiting by protocol of PTZ camera. Please refer to your PTZ camera user's manual for more detail of PTZ ID assignment.

We suggest assigning PTZ camera ID start from 5 to avoid conflict with ID of camera channels.

**PROTOCOL**

Select the protocol of PTZ camera. The protocol will be differenced that depends on the brand of PTZ camera. The DVR system currently supports 2 protocols — PELCO-D and PELCO-P. Please refer to your PTZ camera user manual to make sure which protocol is using for.

**BAUD RATE**

To setup the baud rate of PTZ camera. For more detail, please refer to your PTZ camera's user manual.

**AUTO PAN**

Select the preset number to assign an auto move direction for the PTZ camera. For example: 1-3 means the PTZ camera will auto move from preset position 1, 2 and 3.

**DWELL TIME**

Set a time that how long the IP PTZ camera stays in that position before it moves to the next one.

# Chapter 4 Using the USB Playback Console

## 4.1 Recommended system requirements

- ☐ Pentium®4 2.4GHZ or above
- ☐ Windows®2000/ XP
- ☐ DDR 256 MB
- ☐ Graphic function must support DirectDraw
- ☐ Audio card or built-in
- ☐ Speaker
- ☐ 1 available USB2.0 port

## 4.2 Installing the USB Playback Console

To install the USB Playback Console:

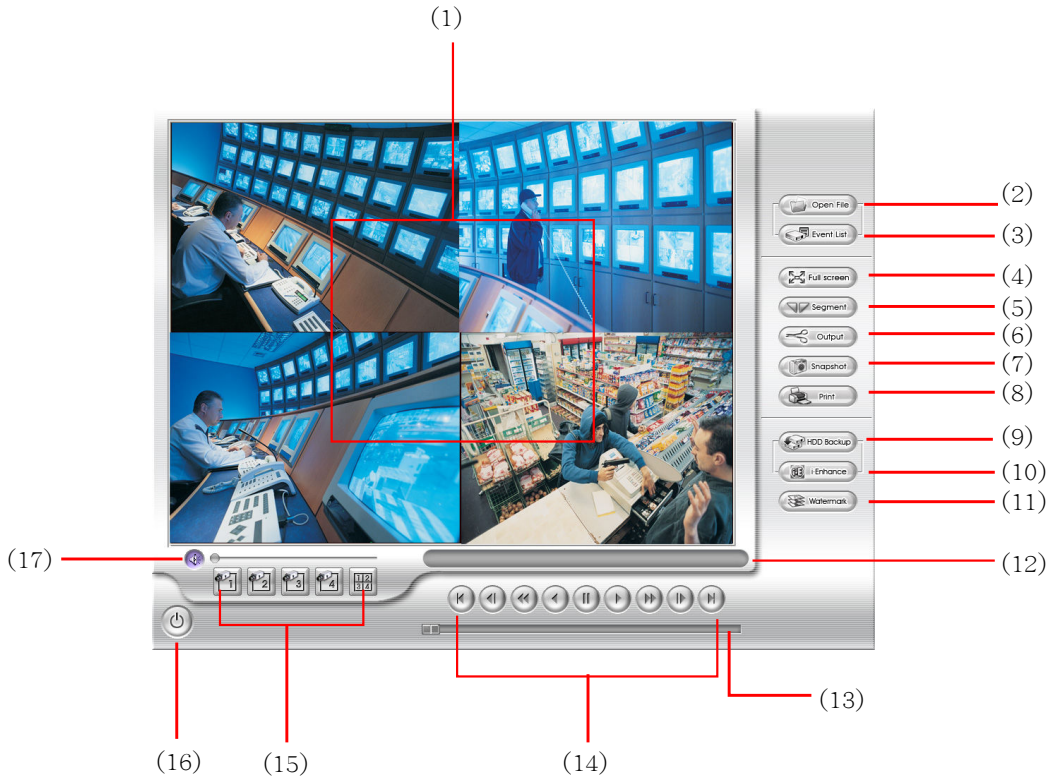
1. Place Installation CD into the CD-ROM drive. When the installation main screen appears, click **Install USB Playback Console** and then follow the on screen instructions

2. Select the language you prefer

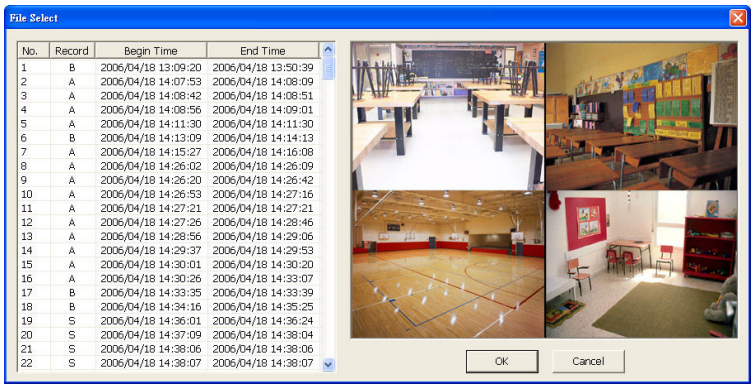
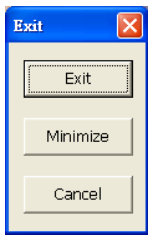
3. Click **OK** to install the application
4. Click **Exit** to close the installation main screen. You may plug in the pen drive or external hard disk now.

## 4.3 Running the USB Playback Console

To run the application, click the icon on the PC desktop




| Name | Function |
|---|---|
| (1) Display screen | Video playback screen |
| (2) Open File | To select the video file for playing. The playback application supports *.dvr and *.avf file.<br> <br>- **DVR Recorded File (HD):** To playback the recorded video from the hard disk which was recording video on the DVR system. (Also see 4.3.2)<br>- **Backup File(.dvr):** The file is backup and save in *.dvr file format. (Also see 4.3.3)<br>- **Backup File(.avf):** The file is backup and save in *.avf file format. The recorded video backup to pen drive is in *.avf. |

| Name | Function |
|---|---|
| (3) Event List | Select the event you want to playback. The event list only available when user select to playback in **DVR Recorded File(HD)**.<br>  |
| (4) Full screen | Use the entire area of the screen to only display the video. To return, press the right button of the mouse or **ESC** on the keyboard.<br>When you switch to full screen in multiple-screen mode, Left click to toggle to only display one of the video in the multiple-screen mode or all. |
| (5) Segment | Keep a portion of the recorded video (see also 4.3.1) |
| (6) Output | Save the segmented file in *.mpg or *.avi format (see also 4.3.1). |
| (7) Snapshot | Capture and save the image either in *.jpg or *.bmp format |
| (8) Print | Print the image |
| (9) HDD Backup | To call out HDD Backup application. (See Chapter 5) |
| (10) iEnhance | To call out iEnhance application. ( See Chapter 7) |
| (11) Watermark | To call out ImageVerification application. (See Chapter 6) |
| (12) Status Bar | Display the recorded date, time and play speed. |
| (13) Progress Bar | Show the progress of the file being played. You may move the bar to seek at any location of the track. |
| (14) Playback Controller | **Begin:** Move at the beginning of the recorded video file.<br>**Previous:** Go back to the previous frame by frame.<br>**Slower:** Play the recorded video file at the speed of 1/2X, 1/4X, or 1/8X.<br>**Rewind:** Wind back the recorded video file.<br>**Pause:** Briefly stop playing the recorded video file.<br>**Play:** Play the recorded video file.<br>**Faster:** Play the recorded video file at the speed of 2x, 4x, or 8x.<br>**Next:** Go to the next frame by frame.<br>**End:** Go to the end of the recorded video file. |
| (15) Split Screen Mode | Select from different screen view to playback the recorded video file of the entire camera or one camera on screen. |
| (16) Exit | Exit/ Minimize the application or chose Cancel to go back to the application<br>  |
| (17) Sound /Sound bar | Turn on and off the sound<br>Increase and decrease the volume |

### 4.3.1 To Cut and Save the Portion of the Recorded Video

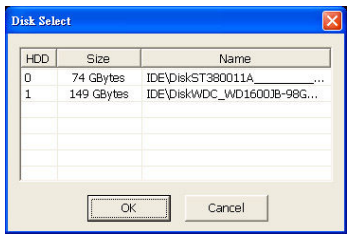
1. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to start the cut. Then, click **Segment** to set the begin mark.

2. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to end the cut. Then, click **Segment** to set the end mark. To cancel segmentation, click **Segment** button again.

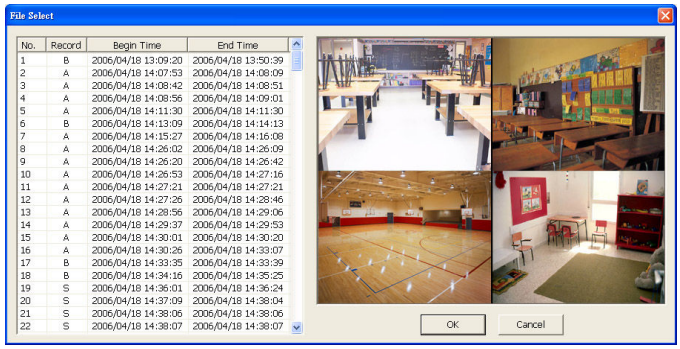
3. Click **Output** button to save the wanted portion.
4. In the **Save As** dialog box, locate on where user wants to save the file, type the filename, and select the video format.

### 4.3.2 Playback DVR Recorded File from Hard Disk

1. Please have the hard disk which containing of recorded video data install on your PC or using external USB enclosure to connect to your PC.
2. Click **Open File** button
3. Select **DVR Recorded File(HD)** and click **OK**.
4. Select the hard disk drive from **Select Disk** window and click **OK**.




5. And then, the **File Select** window appears. Select the event that user wants to play and click **OK**.

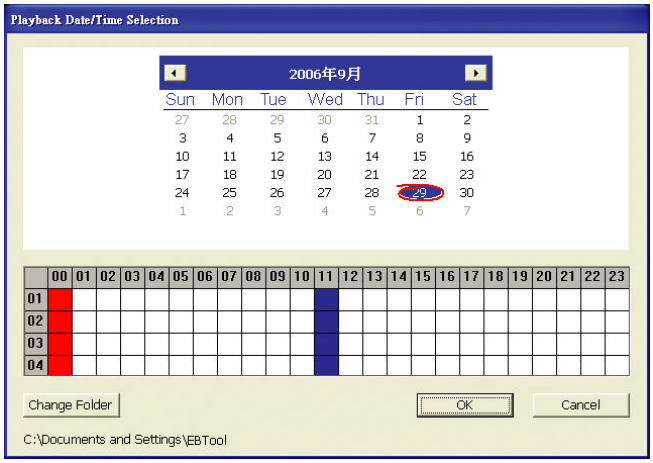


### 4.3.3 Playback Backup File(*.dvr)

1. Click Open File button.
2. Select **Backup File(*.dvr)** and click **OK**.
3. Locate the backup file folder and click **OK**.

> When open the backup video file, just locate the where backup file folder is.

4. And then, **Playback Date/Time Selection** window appears. Select the date and time and click **OK**.

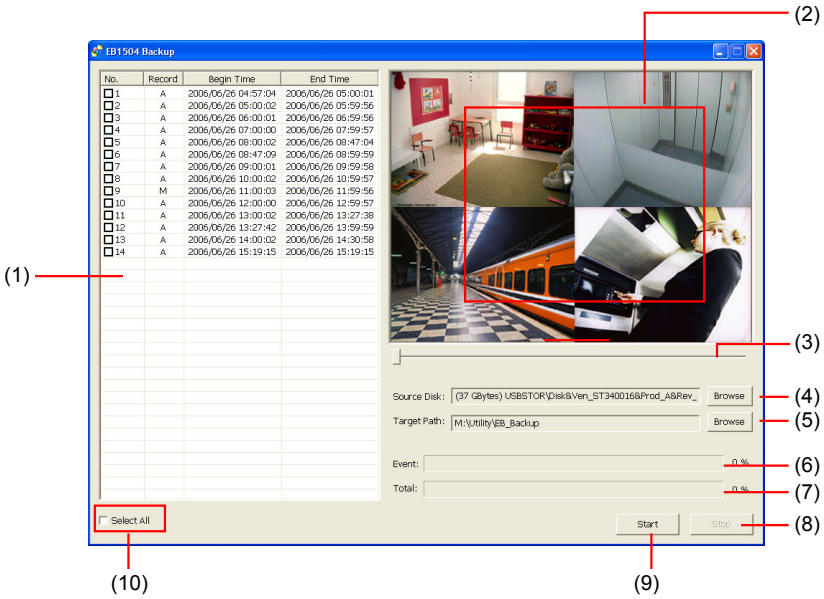


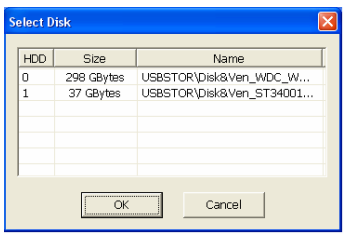
# Chapter 5 Backup Recorded Video File

## 5.1 Recommended system requirements

- ☐ Pentium®4 2.4GHZ or above
- ☐ Windows®2000/ XP
- ☐ DDR 256 MB
- ☐ Graphic function must support DirectDraw
- ☐ Audio card or built-in
- ☐ Speaker
- ☐ 1 available USB2.0 port

## 5.2 Familiarizing with HDD Backup Application

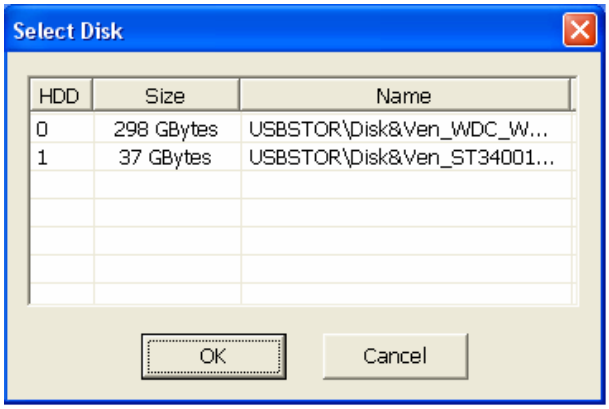



| Name | Function |
|---|---|
| (1) All recorded video events list | **No.**: the list order number<br>**Record:** the record type (see also Chapter 2.4)<br>**Begin Time:** the beginning of record time<br>**End Time:** the end of record time |
| (2) Display screen | Display first frame of each recorded channel video which user had selected. |
| (3) Progress bar | Show the progress of the event being played. User may move the bar to seek at any location of the track |
| (4) Source Disk | To select the hard disk drive<br>  |

| Name | Function |
|---|---|
| (5) Target Path | To locate on where user want to save the file |
| (6) Event (%) | Display the backup progress rate of event in percentage |
| (7) Total (%) | Display the total backup progress rate in percentage |
| (8) Stop | Stop backup progress |
| (9) Start | Start backup progress |
| (10) Select All | Select all listed recorded video events. Click the check box again to cancel for selecting all events. |

## 5.3 To Backup Recorded Video File

1. Please have the hard disk which was recording video on the DVR system install on your PC or using external USB enclosure to connect to your PC.
2. To run the HDD Backup application, click the **HDD Backup** button on USB Playback Application main interface.
3. Click **Browse** in **Source Disk** to locate the recorded video file.
4. And then, the **Select Disk** windows will appear as below:



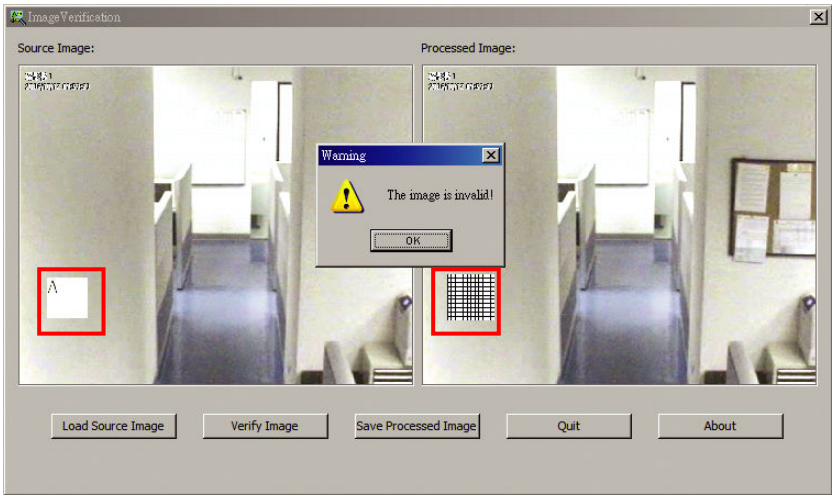

5. Select the hard disk drive from **Select Disk** windows. All available hard disk will list on the **Select Disk** windows with size and name
6. Select the hard disk drive and click **OK**
7. And then, all the recorded video files will list out.
8. Select the event which user wants to backup. Or mark the **Select All** to select all listed recorded video event
9. Locate on where user wants to save the backup file
10. Click **Start** to process backup
11. To stop the backup progress, click **Stop**
12. To play the backup file, see 4.3.3.

# Chapter 6 ImageVerification

Image Verification is a watermark-checking program to identify the authenticity of a saved image (e.g. by snapshot). This program can only verify uncompressed bmp image files.

## 6.1 To Run the ImageVerification

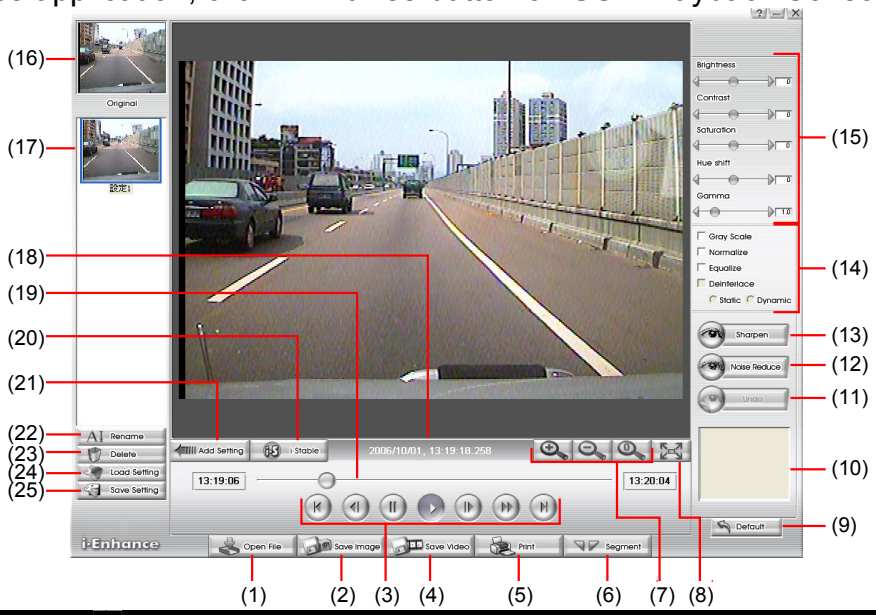
1. To run the ImageVerification application, click the **Watermark** button on USB Playback Console main interface.
2. In the ImageVerification screen, click **Load Source Image** and locate the image source.
3. Click **Verify Image** to begin the process.
4. Check the result in the **Processed Image** screen. If the picture is unmodified, the image in the **Source Image** and **Processed Image** screen would be exactly the same. If the picture is being modified, a warning dialog box would prompt and the modified area is highlighted.



# Chapter 7 iEnhance

The bundled iEnhance is a video editing tool and can only be used with *.dvr video file. It allows you to adjust the video picture quality, segment and save the selected portion of the video, zoom in and out the image, and print or save the screen shot. You can also save the setting and apply it on other files.

To run iEnhance application, click **iEnhance** button on USB Playback Console interface.



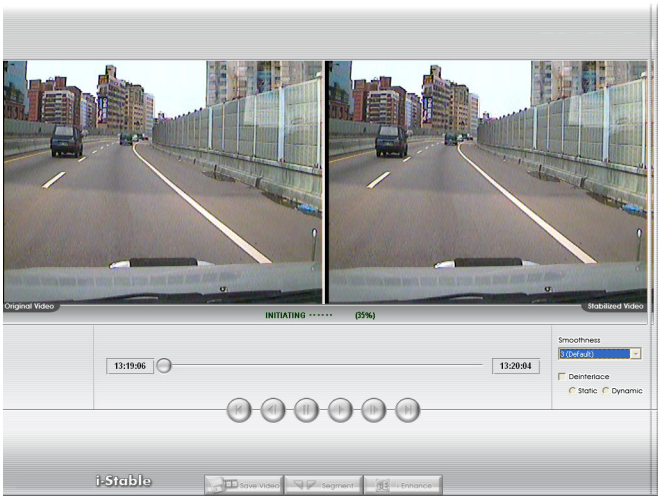

| Name | Function |
|---|---|
| (1) Open File | Access *.dvr video file. |
| (2) Save Image | Capture and save the screen shot in *.bmp format. |
| (3) Playback Control Buttons | Begin: Move at the beginning of the video file.<br>Previous: Go back to the previous frame.<br>Rewind: Wind back the video file.<br>Pause: Temporary stop playing the video file.<br>Play: Play the video file.<br>Faster: Play the video file at the speed of 2x, 4x, or 8x.<br>Next: Go to the next frame.<br>End: Go to the end of the video file. |
| (4) Save Video | Save the edited or segmented video in *.avi format. |
| (5) Print | Print the screen shot. |
| (6) Segment | Mark the beginning and the end of the selected portion of the video. Two triangle marks will appear on the slider. To cancel video segmentation, click this button again. |
| (7) Zoom Buttons | Enlarge, reduce, and set the image back to normal size. |
| (8) Full Screen | Use the entire screen to only display the video. |
| (9) Default | Set the video back to original state and delete all the changes in the history box. |
| (10) History Box | List all the actions. |
| (11) Undo | Delete the last action. |

| Name | Function |
|---|---|
| (12) Noise Reduce | Adjust the softness and repair the damaged colours. |
| (13) Sharpness | Improve the overall image by enhancing edges. This gives the image more depth. |
| (14) Effects | Gray Scale: convert the image into black and white (monochrome).<br>Normalize: adjust the brightness intensity.<br>Equalize: automatically adjust the images that are too dark.<br>De-interlace: smooth out the overlying frames.<br>Static: de-interlace for motionless scene.<br>Dynamic: de-interlace for moving scene. |
| (15) Picture Adjustment | Adjust the Brightness, Contrast, Saturation, Hue and Gamma. |
| (16) Original Screen | Display the original state of the image. |
| (17) Temporary Setting Block | Display the sample settings. Click the sample to apply the setting on the current video. |
| (18) Status Bar | Display the date, and time of the video. |
| (19) Progress Bar | Show the progress of the file being played. You may move the bar to seek at any location of the track. |
| (20) iStable | To reduce the jolt in the recorded video.(also see Chapter 7.1) |
| (21) Add Setting | Include the new setting to the temporary setting block. |
| (22) Rename | Change the name of the selected setting in the temporary setting block. |
| (23) Delete | Permanently remove the selected setting in the temporary setting block. |
| (24) Load Setting | Call the saved settings. |
| (25) Save Setting | Store the settings in the temporary setting block. |

## 7.1 To Use iStable

The iStable function can reduce the jolt in the recorded video.

1. Click **Open File** button and select the recorded video.
2. And then, click **iStable** button.
3. iStable windows will show up.
4. Select the **smoothness** level – 1(Low), 2, 3, 4, and 5(High). The default value is 3.
5. Click Play button, and then iStable function will start to initial the recorded video.
6. When the initialize is done, user will see the original and stabilized recorded video play in two windows. The original video on the right side of window and the stabilized video on the left side of window.



# Chapter 8 Using the Remote Programs

User can use Microsoft Internet Explorer to access DVR system by entering the IP address. To use this feature, make sure that you PC and EB1704 Hybrid both are connected to the internet and the Network feature is enabled.

Accessing this feature for the first time you will be prompted by your browser to install WebCamX.cab, allow the installation and you should be able to connect and login afterwards.

For Windows 2000, click **Yes** when the Security Warning dialog box appears.

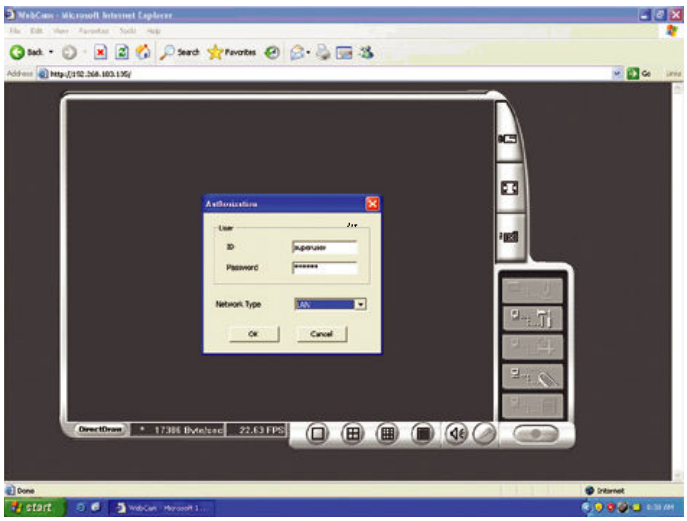
Security Warning
Do you want to install and run "http://live.dss.com.tw/WebCamX.cab" signed on an unknown date/time and distributed by:
AVerMedia TECHNOLOGIES, Inc
Publisher authenticity verified by VeriSign Class 3 Code Signing 2004 CA
Caution: AVerMedia TECHNOLOGIES, Inc asserts that this content is safe. You should only install/view this content if you trust AVerMedia TECHNOLOGIES, Inc to make that assertion.
Always trust content from AVerMedia TECHNOLOGIES, Inc
Yes
No
More Info

For Windows XP, click Install when the Internet Explorer - Security Warning dialog box appears.

Internet Explorer - Security Warning
Do you want to install this software?
Name: WebCamX.cab
More options
Install
Don't Install
While files from the Internet can be useful, this file type can potentially harm your computer. Only install software from publishers you trust. What's the risk?

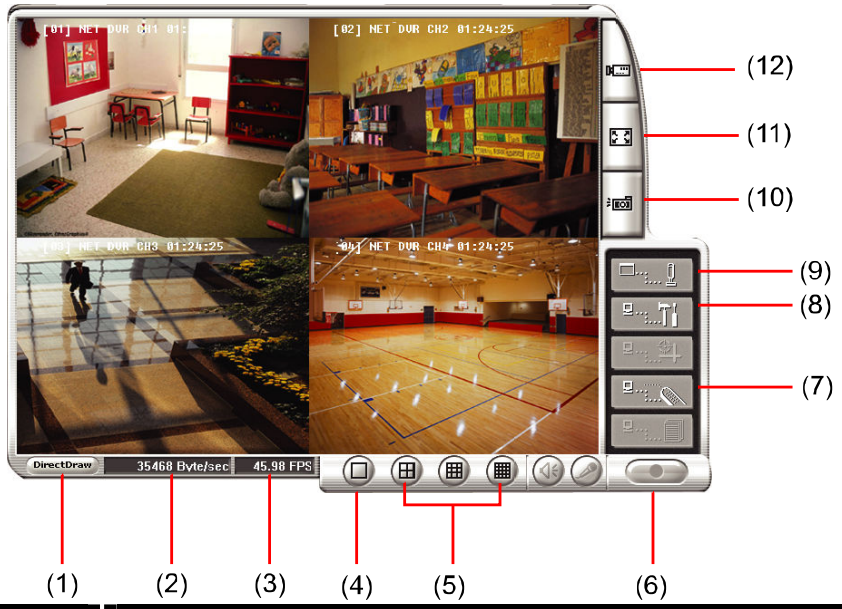
After installing the WebCamX.cab and when connecting to the DVR system, you are required to enter User ID (Superuser or User) and password (default password is 111111) and select the type of network. Superuser has the authority to remote setup the DVR system configuration on Web Viewer.

Changing the Superuser and User default password is strongly recommended.

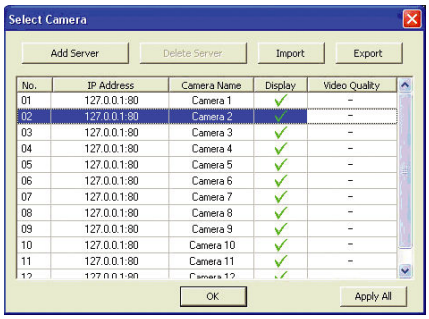


# 8.1 Familiarizing the Web Viewer Buttons

Right-clicking on the Web Viewer video screen, enables you to start video recording, change video quality, switch camera and enable/disable DirectDraw.




| Name | Function |
|---|---|
| (1) DirectDraw | Enhance the video quality. |
| | Not all graphic cards can support this function. If you can not see the screen display correctly or screen is messed, please check with VGA card vendor. |
| (2) Received file size | Indicate the size of the data being sent per second. |
| (3) Camera frames | Indicate the number of frames per second. |
| (4) One screen view | To view single camera view on screen. User can right click on the screen to switch to different camera view. |
| (5) Split screen view | To view all cameras on screen simultaneously. |
| (6) Record | Start to record the video of the selected camera in AVI format. Directly click screen to select the channel that user wants to record and press **Record** button. |
| (7) Remote Console | Initiate Remote Console. It allows you to control DVR server (see also Chapter 8.2). |
| (8) Remote setup | Change the DVR server settings (see also Chapter 8.1.1). |
| | Only Superuser has the authority to remote setup DVR system. |
| (9) PTZ Control | Initiate PTZ camera controller(see also Chapter 8.3) |
| (10) Snapshot | Capture and save the screen shot in *.bmp format. |
| (11) Full screen | Use the entire area of the screen to only display the video.<br>To return, Right click the mouse or press ESC on the keyboard. |

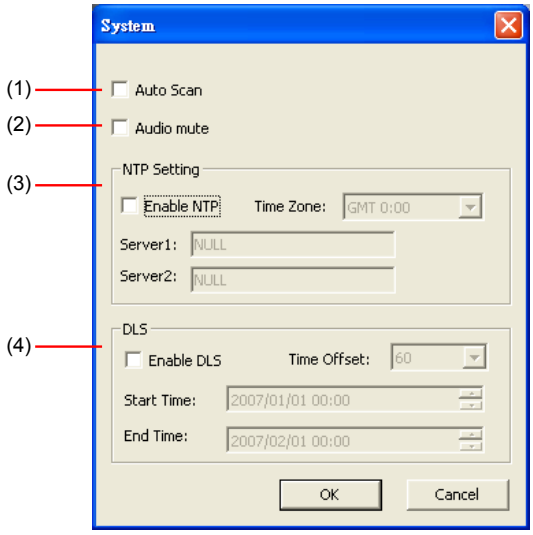
| Name | Function |
|---|---|
| (12) Select cameras to view | Select to the view camera from different server. In Select Camera dialog box, Display column, click to enable/disable viewing the camera.<br>Click **Add Server** and select the server type between DVR and IP Cam to add.<br>Click **Delete Server** to delete the selected item.<br>Click Import to load the previous saved list.<br>Click **Export** to save the list.<br>Click **Apply** All to change all the camera video quality based on the selected setting.<br>Click **OK** to exit.<br>  |

## 8.1.1 To Setup Remote System Setting

Click **OK** to exit and save the setting and **Cancel** to exit without saving the setting. The setting here applies to Remote DVR system only.

- After changed the DVR system setting, refresh your web browser in order to apply the new setting to the DVR system.
- Only the superuser has the authority to change remote DVR system settings.

### 8.1.1.1 System Setup




**(1) Auto Scan**

Enable/disable auto cycle switch to display the next channel when in full screen preview. User can set different switch time for each channel. The time range is from 5 ~30 seconds.

**(2) Audio mute**

Enable/disable to hear audio sound of local DVR. To hear sound, make sure the unit is connected to an audio output device (ex: speaker). If user recorded video in audio mute status, there is no sound when playback

**(3) NTP Setting**

Setup the time auto synchronization.

- **Enable NTP**

  Enable/disable time synchronization automatically through network. The DVR system will auto synchronize time from NTP servers which user has entered in following server 1 and server 2 column. The first time synchronize will be 6 hours later after system power up.

  When the daylight saving is enabling, the auto time synchronization will be stopped.

- **TIME ZONE:**

  Select the time synchronization time zone. The time zone will base on GMT (Greenwich Mean Time) time zone.

- **Server 1/Server 2**

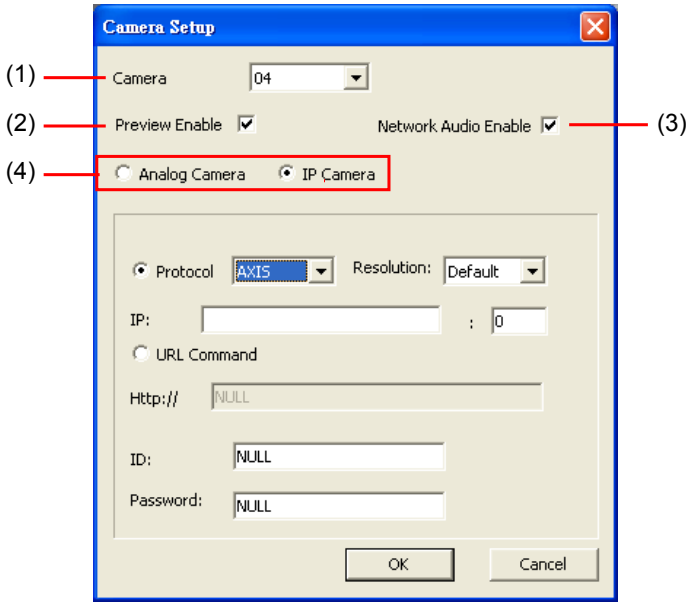
Fill in the network time server URL or IP address (clock.stdtime.gov.tw or time.stdtime.gov.tw)

**(4) DLS**

Setup daylight saving settings.

- **Enable DLS**
  To enable/disable daylight saving function.
- **START**
  Setup daylight start up date and time.
- **END**
  Setup daylight stop date and time.
- **TIME OFFSET**
  Assign a time that it is for daylight saving time offset in your time zone. For example: if the time zone is in U.S. Eastern, the time offset is 1 hour.

### 8.1.1.2 Camera Setup




**(1) Camera**

Select the camera that user wants to set up.

**(2) Preview Enable**

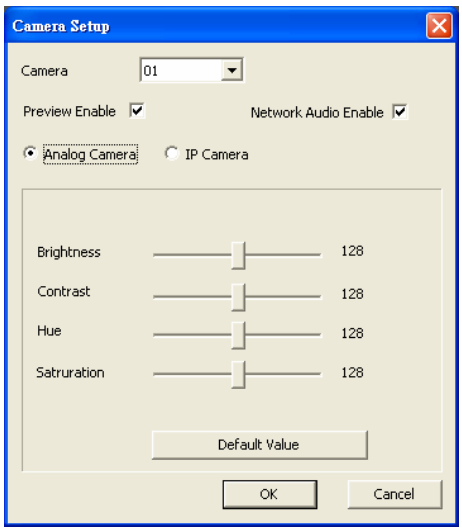
Enable/disable the camera channel to display the video on the surveillance screen

**(3) Network Audio Enable**

Enable/disable the audio sound record when recording the video through network.

**(4) Select the Camera attribute**

- **Analog Camera**
  i. **Video Adjustment**
  Select the camera and adjust the Brightness, Contrast, Hue and Saturation of the selected camera.
  ii. **Default Value**
  Set the video value back to default




- **IP Camera**
  - i. **Protocol / Resolution**

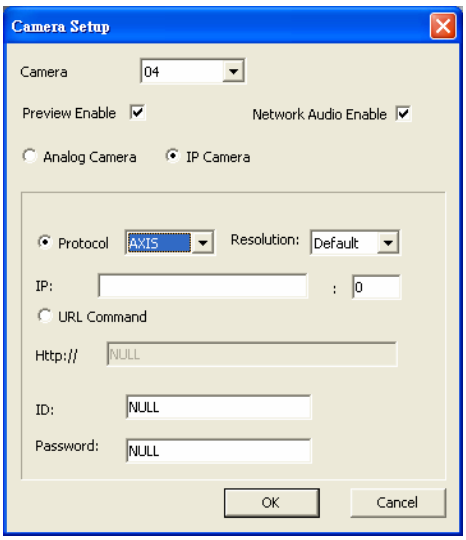
    When the camera is an IP camera, select the protocol and resolution of IP camera.
  - ii. **IP**

    Fill in the IP address and connection port of IP camera.
  - iii. **URL Command**

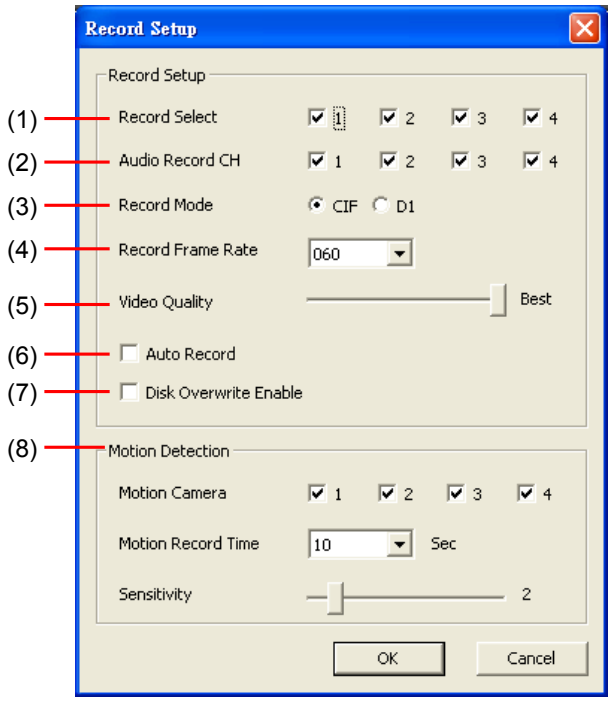
    If the IP camera has a URL address instead IP address, user can enter the URL address for IP camera connection.
  - iv. **ID**

    If the IP camera has setup the authority security for accessing, please fill the login ID account in here.
  - v. **Password**

    Fill the password for accessing IP camera.



### 8.1.1.3 Record Setup




**(1) Record Select**

Enable/disable the channel number to record video

The channels which could be recorded should be enabled in the **CAMERA SELECT** first.

**(2) Audio Record CH**

Enable/disable channel number audio recording. To record sound, make sure the microphone is connected to the unit

**(3) Record Mode**

Select D1/CIF recording mode. Under D1 mode, the resolution of video recording is 720 x 480/720 x576. Each channel is recorded at a maximum frame rate of 15fps. You can switch to view the video in single full screen or 4 split screen. Whereas in CIF mode, video recording is at resolution of 360 x 240/360 x 288, but each video is recorded in 30fps/25fps (NTSC/PAL).

**(4) Record Frame Rate**

Set the number of frames per second to be recorded. Refer to the table below for the available record frame rate settings. The higher the frame rate is, it uses more hard disk space

| Video Standard / Record Mode | NTSC | PAL |
|---|---|---|
| D1 | 60, 20, 4 | 48, 20, 4 |
| CIF | 120, 60, 40, 20, 4 | 100, 48, 20, 4 |

**(5) Video Quality**

Select the video quality setting from BEST, HIGH, MEDIUM, GOOD, NORMAL or LOW.

**(6) Auto Record**

Enable/disable continue auto recording when interrupted (i.e., power breakdown, video playback or configuration setup). It continue recording after 10 second of idleness. This is applicable in Always Record mode under schedule setting.

**(7) Disk Overwrite Enable**

Enable/disable replacing the earliest record when the hard disk space runs out. By default, the HDD overwrite setting is enabled

**(8) Motion Detection**

- **Motion Camera**

  Enable/disable the channel number to detect motion.

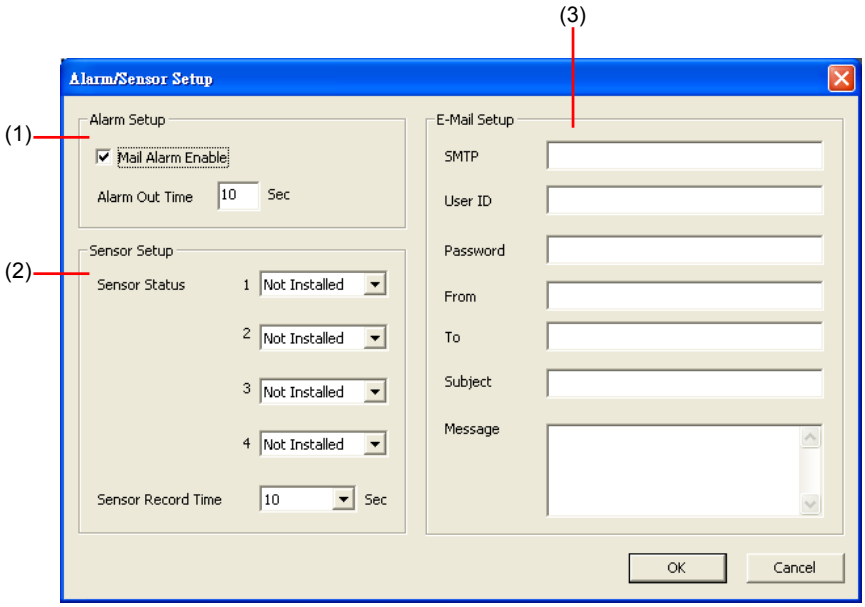
- **Motion Record Time**

  Set the amount of time (in second) to record when a motion has detected.

- **Sensitivity**

  Set the sensitivity level. The sensitivity is from high, 9~ 2 and low.

### 8.1.1.4 Alarm/Sensor Setup




**(1) Alarm Setup**

- **Mail Alarm Enable**

  Enable/disable alarm sending mail when alarm has triggered or motion has detected.

> The Motion Detection must be enabled first, the alarm sending mail will send out the mail when detect motion.

- **Alarm Out Time**

  Set the amount of time (in second) to continue sending the alarm once activated

**(2) Sensor Setup**

- **Sensor Status**

  Customize the initial state of the attached sensor for every camera. Refer to the table below to customize the sensor state.

  **Not installed:** Indicates that there is no sensor connected

  **Normal open:** Indicates that the initial state of the sensor is normal open. Video recording initiate when there is a changes in the sensor state

  **Normal close:** Indicates that the initial state of the sensor is normal close. Video recording initiate when there is a changes in the sensor state

- **Sensor Record Time**

  Set the amount of time (in second) to record after the sensor has been triggered

**(3) E-Mail Setup**

- **SMTP**

  Enter the SMTP server IP

- **User ID & Password**

  Enter User ID and Password for e-mail server user identification

- **From**

  Enter the sender e-mail address

- **To**

  The recipient e-mail address and separate it with a semicolon

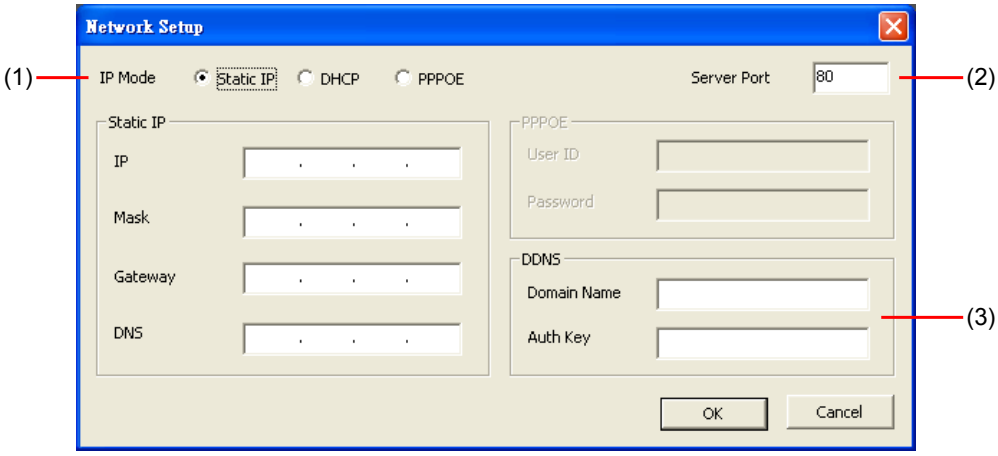
- **Subject**

  Enter the message title

- **Message**

  Type the message

### 8.1.1.5 Network Setup




**(1) IP Mode**

- **Static IP**

Assign a fixed and global IP address for the DVR system

**IP:** Assign a constant IP address which real IP addresses from ISP.

**Mask:** Enter the subnet mask of the IP address which user has assigned to DVR system.

It is a bitmask used to tell how many bits in an octet(s) identify the subnetwork, and how many bits provide room for host addresses.

**Gateway:** Enter the network gateway IP address

**DNS:** Domain Name Server translates domain names (such as www.abb.com.tw) to IP addresses. It will translate the domain name into IP address when DVR system request.

- **DHCP**

Assign the IP address by local DHCP server to DVR system.

The Dynamic Host Configuration Protocol (DHCP) is a set of rules used by a communications device (such as a computer, router or networking adaptor) to allow the device to request and get an Internet address from a server which has a list of addresses available for assignment.

- **PPPOE**

Point-to-Point Protocol over Ethernet is a network protocol for encapsulating PPP frames in Ethernet frames. It is used mainly with ADSL services.

**User ID & Password:** fill in the user account and password that user applied from your ISP for PPPOE connection.

**(2) Server Port**

A port is using for the remote connection. Any port can be assigned as a server port, except the ports already used by the network services.

**(3) DDNS**

DDNS (Dynamic Domain Name Service) is a data query service mainly used on the Internet for translating domain names into Internet addresses. Users can register their

own domain name on **http://www.ddns.avers.com.tw**. (See Appendix A)

- **Domain Name**

  Enter the domain name that user wanted.

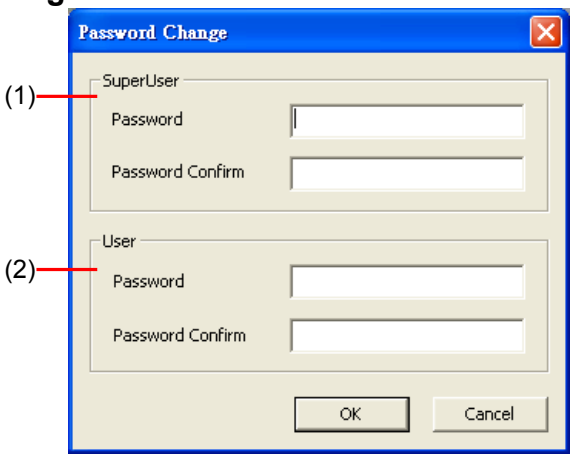
- **Auth Key**

  A password use to access DDNS to register the domain name. MAC address of the DVR system is the key for user to register the domain name on AVerMedia DDNS web site. To find MAC address of your DVR system, follow the steps below:

1. In OSD menu, select **NETWORK SETUP**
2. Select any one of IP mode
3. A **NETWORK INFORMATION** windows will show up
4. MAC address of DVR system is display as shown

### 8.1.1.6 Password Change

Click **Remote setup** button on Web Viewer main interface, and then, click **User** button to call out the **Password Change** interface.




**(1) Superuser**

Change the remote accessing password of super user. Superuser has the authority to remote setup the DVR system configuration on Web Viewer.

- **Password**

  Enter the new password

- **Password** Confirm

  Re-enter password to confirm

**(2) User**

Change the remote accessing password of user

- **Password**

  Enter the new password

- **Password** Confirm

  Re-enter password to confirm

# 8.2 Familiarizing the Remote Console Buttons

| Name | Function |
|---|---|
| (1) Exit | Close the Remote Console. |
| (2) Audio button | Enable/disable the sound. |
| (3) Split Screen Mode | Select from six (6) different split screen type to playback the recorded video file of all the camera, or one camera over the other or alongside on a single screen. |

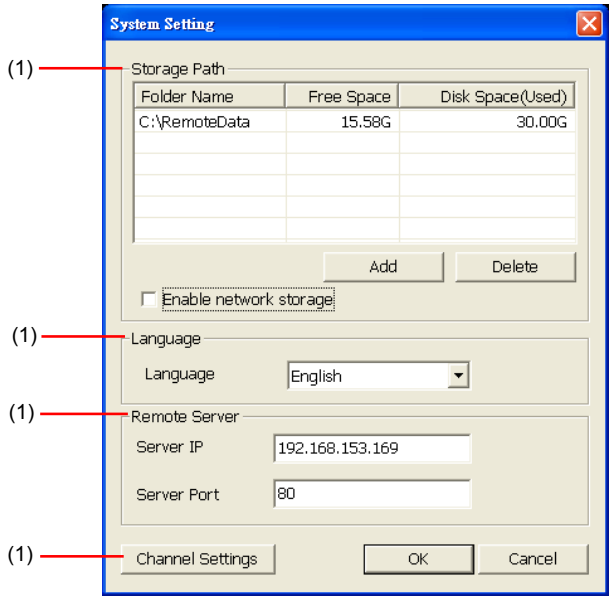
If there are only 4 cameras, you won't be able to switch to 9, 16, and 13 split screen mode.

| | |
|---|---|
| (4) Record | Start/stop video recording. |
| (5) Network | Enable/disable remote system access. This feature allows you to access EB DVR server from a remote location via internet connection. |
| (6) Setup | Configure the Remote Console setting. (see also Chapter 8.2.1) |
| (7) Preview | Switch to Preview/Playback mode. This allows you to view live camera display. |
| (8) Playback | Switch to Playback mode. This allows you to view the recorded video file. (see Chapter 8.4) |
| (9) Status Bar | Display the current date, time and hard disk free space. |
| (10) Camera ID | Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera. |
| (11) Snapshot | Capture and save the screen shot either in *.jpg or *.bmp format. |
| (12) Full screen | Use the entire area of the screen to only display the video.<br>To return, Right click the mouse or press ESC on the keyboard. |
| (13) DirectDraw | Enable/disable DirectDraw function |

Direct Draw function supports for certain VGA card. For more information, please contact your VGA card vendor.

## 8.2.1 To Setup Remote Console Setting

Click **Setup** button to call out the **System Setting** windows. Click **OK** to exit and save the setting and **Cancel** to exit without saving the setting.




**(1) Storage Path**

Set the directory on where to save the data. When there is not enough free space to record one hour data, the system automatically replaces the oldest data. In case you have more than one storage path, the system automatically saves the data to the next storage path. By default the data is stored in C:\RemoteData, to insert another storage path, click **Add**. To remove the selected path, click **Delete**.

- **Enable** network storage

  Select the Enable network storage check box to send the recorded video in network-attached storage.

> To add network storage, the Internet storage drive/folder must be mapped as Network Driver in DVR server. To know how to assign or connect to a network drive, please refer to your Windows help file and search “Map Network drive”.

**(2) Language**

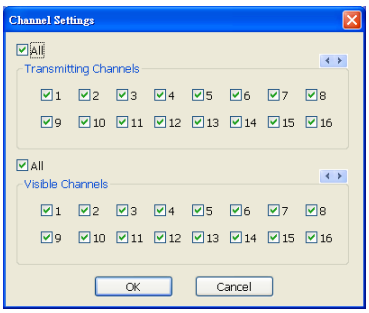
Customize the system to display the tool tips and dialogs based on the selected language. By default the language is in English.

**(3) Remote Server**

Enter the DVR Server IP and Server Port number.

**(4) Channel Settings**

The numbers from 1 to 4 represent the camera ID. In Transmitting Channels section, enable the camera number to receive the camera signal from the server. In Visible Channels section, enable the camera number to view the camera signal on Remote Console screen. To select all the cameras, enable the **ALL** check box.



## 8.3 Familiarizing the WebViewer PTZ Buttons

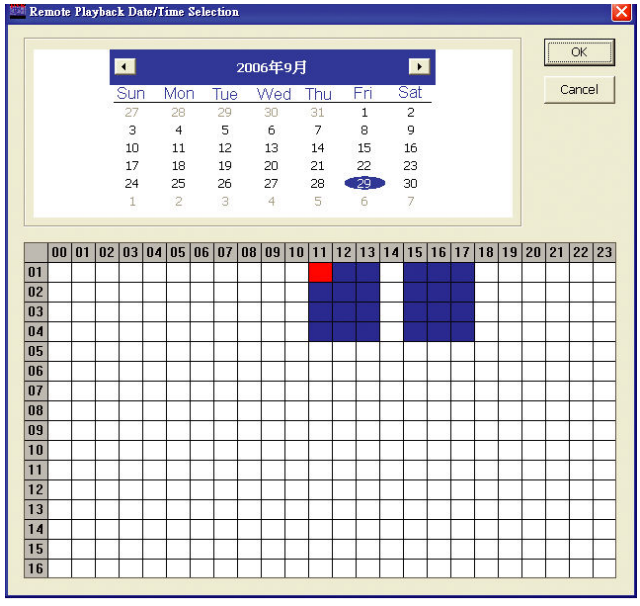
| Name | Function |
|---|---|
| (1) Direction buttons | Adjust and position the focal point of the PTZ camera. Click the center to pan automatically. |
| (2) Zoom +/- | Zoom in and out the image. |
| (3) Select PTZ | Choose to enable/disable the PTZ camera. In the Select PTZ dialog box, Select column, click to enable/disable viewing and controlling the PTZ camera.<br>Click **OK** to exit and save the setting and **Cancel** to exit without saving the setting. |
| (4) Focus +/- | Adjust the focus manually to produce clear image. |
| (5) Camera preset position number | Move the PTZ camera to the preset point. The reset point (1~9) is based on the user has setup by remote control at local site. |

## 8.4 Using the Remote Playback

To use this feature, first you need to select the source of the file. Click the **Playback** button. And then, in the Select Playback Mode dialog box, choose **Local Playback** to open the file that is recorded in the Remote Console, and **Remote Playback** to open the file that is recorded in the DVR server. When you choose Remote Playback, select **Download and Playback**.

Click **OK** to proceed and **Cancel** to void this operation.

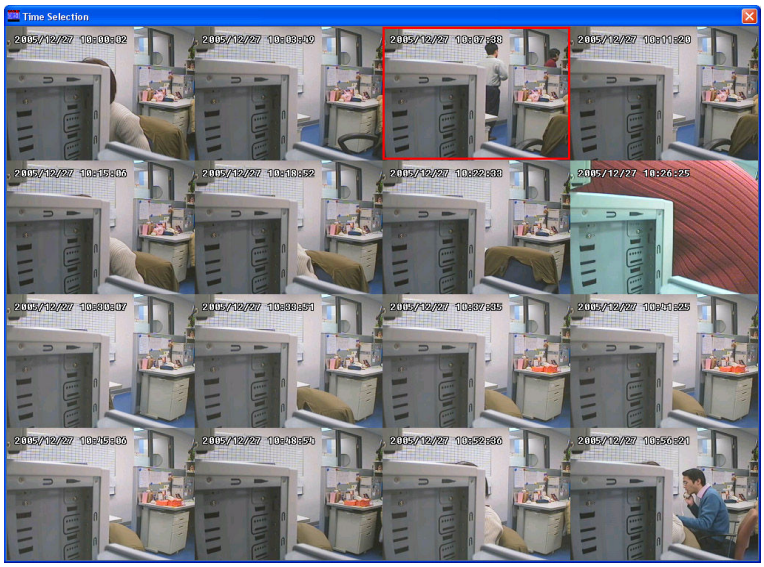
In the Video Playback Date/Time Selection, the number from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 16 represent the camera number.



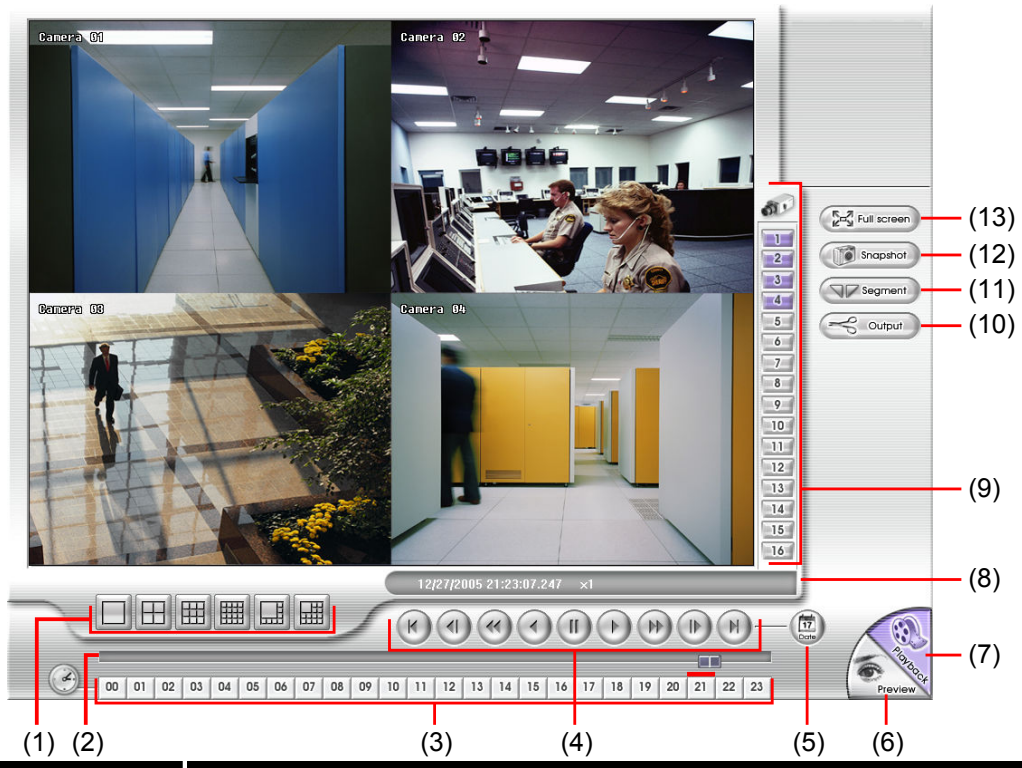

**To Make a Selection:**

1. Select the date in the calendar. Use ◂ and ▸ buttons to shift the calendar to the left or right.
2. In the table below, click on the blue block to select and open the recorded file. The blue block turns red when it is selected. The block that appears in white doesn't have data. You can only select one block when you choose Download and Playback.
3. Click **OK** to proceed and **Cancel** to void this operation.

4. If you select Download Playback and after making the selection, the system divides the selected hour into 16 video thumbnails. In the Time Selection screen, click on the video thumbnail you want to download (see also Chapter 8.3.2).




## 8.4.1 Familiarizing the Local Playback Buttons




| Name | Function |
|---|---|
| (1) Split Screen Mode | Select from six (6) different split screen type to playback the recorded video file of all the camera, or one camera over the other or alongside on a single screen. |
| | - If there are only 4 cameras, you won't be able to switch to 9, 16, and 13 split screen mode.<br>- To zoom in an area on the screen, Right click and Drag a square on the area you want to enlarge. To back to normal view, right click the channel screen again. |
| (2) Progress bar | Show the progress of the file being played. You may move the bar to seek at any location of the track. |

| Name | Function |
|---|---|
| (3) Hour Buttons | Select and click to playback the recorded video file on the specific time frame. |

The Hour buttons represent the time in 24-hour clock. The blue bar on top of the hour button indicates that there is a recorded video file on that period of time. If there is no recorded data within the hour, there will be no color bar on top of the hour button. While the red bar indicates that you are currently viewing the recorded video file.

| | |
|---|---|
| (4) Playback Control Buttons | **Begin:** Move at the beginning of the recorded video file.<br>**Previous:** Go back to the previous frame.<br>**Slower:** Play the recorded video file at the speed of ½x, ¼x, or ⅛x.<br>**Rewind:** Wind back the video file.<br>**Pause:** Briefly stop playing the recorded video file.<br>**Play:** Play the recorded video file.<br>**Faster:** Play the recorded video file at the speed of 2x, 4x, or 8x.<br>**Next:** Go to the next frame.<br>**End:** Go to the end of the video file. |
| (5) Date | Select the date on the calendar and the time from 00 to 23 to where to start playing the recorded video file. |

The numbers from 00 to 23 represent the time in 24-hour clock. The numbers from 01 to 16 represent the camera ID. While the red colored column indicates on where to start playing the recorded video file. If there is no any video data, it will be no color bar on top of the date button.

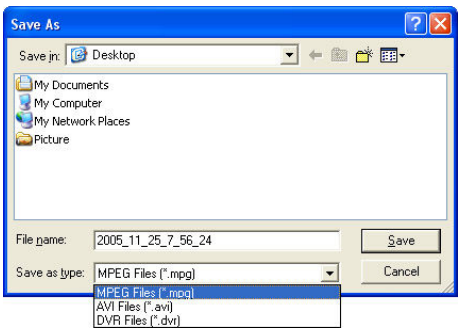
| | |
|---|---|
| (6) Preview | Switch to Preview/Playback mode. |
| (7) Playback | Switch to Playback mode. This allows you to view the recorded video file. |
| (8) Status bar | Display the record date, time, HDD capacity in preview mode and play speed in playback mode. |
| (9) Camera ID | Show the number of cameras that are being viewed. When you are in single screen mode, click the camera ID number to switch and view other camera. |
| (10) Output | Save the segmented file in *.mpg, *.avi, or *.dvr format (see also Chapter 8.3.1.1). |
| (11) Segment | Keep a portion of the recorded video you want (see also Chapter 8.3.1.1). |
| (12) Snapshot | Capture and save the screen shot either in *.jpg or *.bmp format. |
| (13) Full screen | View in Playback-compact mode. To return, press the right button of the mouse or ESC on the keyboard. |

### 8.4.1.1 To Cut and Save the Wanted Portion of the Recorded Video

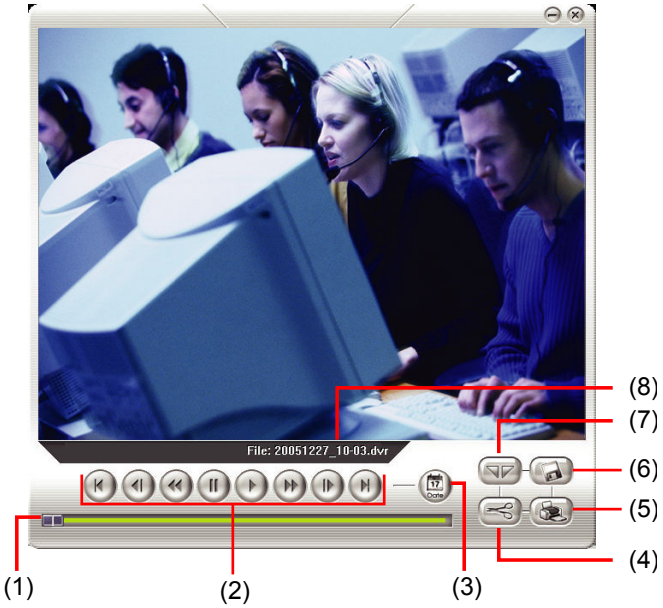
1. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to start the cut. Then, click Segment to set the begin mark.

2. Use the Playback Control buttons or drag the bar on the playback progress bar and pause on where you want to end the cut. Then, click Segment to set the end mark. To cancel segmentation or set the segment marks from the start, click Segment button again.

3. Click Output button to save the wanted clip.
4. In the Save As dialog box, locate on where you want to save the file, type the filename, and select the video format.




## 8.4.2 Familiarizing the Download and Playback Buttons




| Name | Function |
|---|---|
| (1) Progress bar | Show the progress of the file being played. You may move the bar to seek at any location of the track. |
| (2) Playback Control Buttons | **Begin:** Move at the beginning of the video file.<br>**Previous:** Go back to the previous frame.<br>**Slower:** Play the recorded video file at the speed of 1/2x, 1/4x, or 1/8x.<br>**Rewind:** Wind back the video file.<br>**Pause:** Briefly stop playing the recorded video file.<br>**Play:** Play the recorded video file.<br>**Faster:** Play the recorded video file at the speed of 2x, 4x, or 8x.<br>**Next:** Go to the next frame.<br>**End:** Go to the end of the video file. |
| (3) Date | Open other file. |
| (4) Output | Save the segmented file in *.mpg or *.avi format. |
| (5) Print | Print the screen shot. |
| (6) Save | Save the screen shot either in *.jpg or *.bmp format and video in *.dvr format. |
| (7) Segment | Keep a portion of the recorded video you want. You may follow the instruction in Chapter 8.3.1.1. |

# Warranty Notice

**LIMITED WARRANTY**

AVerMedia INFORMATION, Inc. warrants this product to be free of defects resulting from faulty manufacture or components under the following terms:

**WARRANTY LENGTH**

Labor is warranted for (1) one year from the date of purchase

Parts are warranted for (1) one year from the date of purchase

Replacement products will be warranted for the remainder of the one year warranty period or (30) thirty days, whichever is longer

**WHO IS PROTECTED**

This warranty is enforceable only by the first consumer purchaser

**WHAT IS AND IS NOT COVERED**

Except as specified below, this warranty covers all defects resulting from faulty manufacturing of this product. The following are not covered by the warranty.

1. Any product on which the serial number has been defaced, modified, or removed
2. Damage, deterioration, or malfunction resulting from:

   Accident, abuse, misuse, neglect, fire, water, lightning, or other acts of nature, commercial or industrial use, unauthorized product modification, or failure to follow instructions included with the product.

   Misapplication of service by someone other than the manufacturer's representative

   Any shipment damages (Claims must be made with carrier)

   Any other cause which does not relate to a product defect
3. Cartons, cases, batteries, cabinets, tapes, or accessories used with product
4. AVerMedia does not warrant that this product will meet your requirements; it is your responsibility to determine the suitability of this product for your purpose

**WHAT WE WILL AND WILL NOT PAY FOR**

We will pay labor and material expenses for covered items. However, we will not pay for the following:

1. Removal or installation charges
2. Shipping charges
3. Any incidental charges

**EXCLUSION OF DAMAGES**

THE MANUFACTURER'S SOLE OBLIGATION AND LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT OF A DEFECTIVE PRODUCT AT OUR OPTION. THE MANUFACTURER SHALL NOT, IN ANY EVENT, BE LIABLE TO THE PURCHASER OR ANY THIRD PARTY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGE (INCLUDING, BUT NOT LIMITED TO, DAMAGES RESULTING FROM INTERRUPTION OF SERVICE AND LOSS OF BUSINESS) OR LIABILITY IN TORT RELATING TO THIS PRODUCT OR RESULTING FROM ITS USE OR POSSESSION.

**LIMITATIONS OF IMPLIED WARRANTIES**

There are no other oral or written warranties, expressed or implied, including but not limited to those of merchantability or fitness for a particular purpose. Any implied warranties are limited in duration to one year from the date of purchase

**STATE LAW AND YOUR WARRANTY**

This warranty gives you specific legal rights, and you may also have other rights granted under state law. These rights vary from state to state

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